JVC

SERVICE MANUAL

CAR CD RECEIVER

XL-G2000 A/B/C/E/G/GE/J/U

COMPACT disc DIGITAL AUDIO

CD CARTRIDGE

Area suffix	
A	Australia
B	U.K.
C	Canada
E	Continental Europe
G	Germany
GE	Austria, Switzerland and Eastern Europe
J	U.S.A.
U	Other Areas

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No. 49125
March 1991

Safety Precautions

J (USA) Only
Important for Laser Products

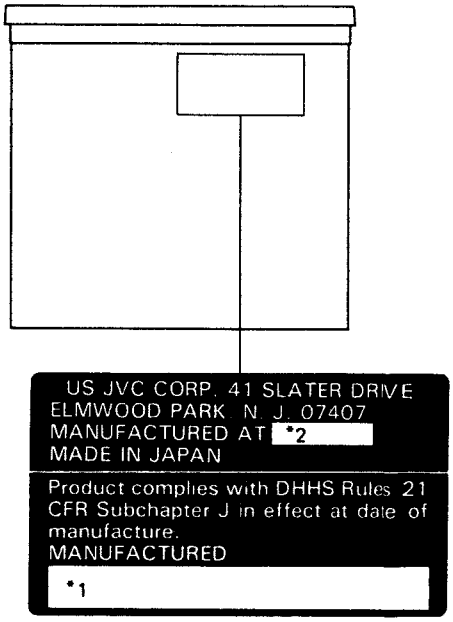
1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the bottom cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when unloading cartridge and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls of adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
6. CAUTION: The laser is able to function, if safety switches are out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

B/E/G Only
Important for Laser Products

1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the bottom cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when unloading cartridge and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls of adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

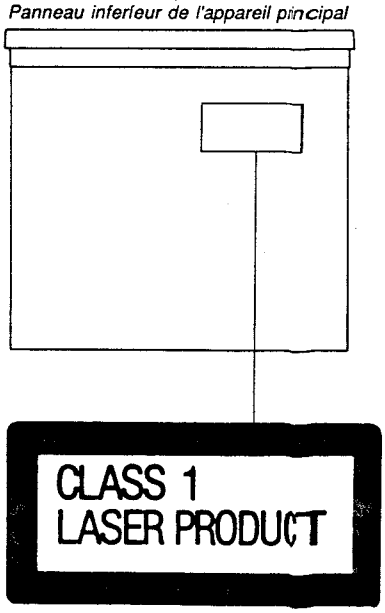
IDENTIFICATION LABEL AND CERTIFICATION LABEL

Bottom panel of the main unit
Panel inferior de la unidad principal
Panneau inferieur de l'appareil principal

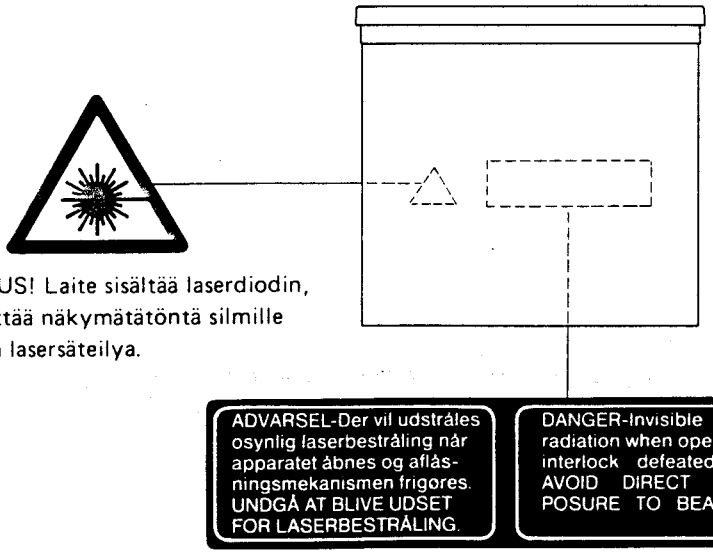

US JVC CORP. 41 SLATER DRIVE
ELMWOOD PARK N. J. 07407
MANUFACTURED AT *2
MADE IN JAPAN
Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
MANUFACTURED
*1

Notes:
***1 The date of manufacture.**
***2 The ID code of manufacturing plant.**

Bottom panel of the main unit
Unterseite der Haupteinheit
Panneau inferieur de l'appareil principal



Top panel of the main unit
Oberseite der Haupteinheit
Panneaux supérieur de l'appareil principal



VAROITUS! Laite sisältää laserdiodin, joka lähettää näkymätätöntä silmille vaarallista lasersäteilya.

ADVARSEL-Der vil udstråles osynlig laserbestråling når apparatet åbnes og aflåsningsmekanismen frigøres. UNDGÅ AT BLIVE UDSET FOR LASERBESTRÅLING.
DANGER-Invisible laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

Obs:
Apparaten innehåller laserkomponent av högre laserklass än klass1.

Instruction Book (Extraction)

FM PULSE NOISE SUPPRESSOR

This unit has built-in circuitry to effectively eliminate engine noise picked up by the antenna, etc. in the form of FM pulses, for more favorable FM reception.

SUPRESOR DE IMPULSOS PARASITOS DE FM

Esta unidad tiene circuitos que eliminan eficazmente los ruidos de automotores captados por la antena, etc. en forma de impulsos de FM, favoreciendo así la recepción por FM.

ELIMINATEUR D'IMPULSIONS PARASITES FM

Cet appareil possède un circuit incorporé qui élimine avec efficacité les bruits du moteur captés par l'antenne etc. sous forme d'impulsions FM pour une meilleure réception FM.

SPECIFICATIONS — ESPECIFICACIONES — CARACTERISTIQUES TECHNIQUES

CD PLAYER/AUDIO AMPLIFIER SECTION

Type: Compact disc player
Signal Detection System: Non-contact optical pickup (semiconductor laser)
Number of Channels: 2 channels (stereo)
Frequency Response: 5 – 20,000 Hz
Dynamic Range: 90 dB
S/N Ratio: 95 dB
Distortion: 0.015 %
Wow & Flutter: Less than measurable limit
Maximum Power Output:
22 watts per channel
Continuous Power Output (RMS):
8 watts per channel into 4 Ω, 40 to 20,000 Hz, at no more than 0.8 % total harmonic distortion

SECCION DEL REPRODUCTOR DE CD/AMPLIFICADOR DE AUDIO

Tipo: Reproductor de discos compacto
Sistema de detección de señales: Fonocaptor óptico sin contacto (laser de semiconductor)
Número de canales: 2 canales (estéreo)
Respuesta de frecuencia: 5 – 20.000 Hz
Gama dinámica: 90 dB
Relación señal-ruido: 95 dB
Distorsión: 0,015 %
Fluctuación y tremolación: Inferior al límite medible
Maxima potencia de salida:
22 watts por canal
Potencia de salida continua (eficaz):
8 watts por canal en 4 Ω, 40 a 20.000 Hz, a no más de 0,8 % de distorsión armónica total

SECTION LECTEUR DE CD/AMPLIFICATEUR AUDIO

Type: Lecteur de disque audionumérique
Système de détection de signal: Prélèvement optique sans contact (laser à semiconducteur)
Nombre de canaux: 2 canaux (stéréo)
Réponse en fréquence: 5 – 20.000 Hz
Gamme dynamique: 90 dB
Rapport S/B: 95 dB
Distorsion: 0,015 %
Pleurage et scintillement: Inférieur à la limite mesurable
Puissance de sortie maximale:
22 watts par canal
Puissance de sortie continue (RMS):
8 watts par canal sous 4 ohms, 40 à 20.000 Hz, avec pas plus de 0,8 % de distorsion harmonique totale

Load Impedance: 4 Ω (4 ~ 8 Ω Allowable)
Tone Control Range
Bass: ±10 dB at 100 Hz
Treble: ±10 dB at 10 kHz
Frequency Response: 40 – 20,000 Hz
S/N ratio: 70 dB
Output Level: 1.5 V/20 kΩ load (Full scale)
Output Impedance: 1 kΩ

RADIO SECTION

Frequency Range
FM: 87.5 – 107.9 MHz (XL-G2000C/J)
87.5 – 108.0 MHz (XL-G2000A/U)
AM: 530 – 1,710 kHz (XL-G2000C/J)
531 – 1,620 kHz (XL-G2000A/U)
[FM Tuner]
Usable Sensitivity: 15.3 dBf (1.6 μV/75 Ω)
50 dB Quieting Sensitivity: 18.5 dBf (2.3 μV/75 Ω)
Alternate Channel
Selectivity (400 kHz): 65 dB
Frequency Response: 40 – 15,000 Hz
Stereo Separation: 35 dB
Capture Ratio: 1.5 dB
[AM Tuner]
Sensitivity: 20 μV
Selectivity: 35 dB

Impedancia de carga: 4 Ω (4 – 8 Ω permisible)
Margen de control de tono
Agudo: ±10 dB a 100 Hz
Grave: ±10 dB a 10 kHz
Respuesta de frecuencia: 40 – 20.000 Hz
Relación señal/ruido: 70 dB
Nivel de salida: 1,5 V/20 kΩ de carga (Escala completa)
Impedancia de salida: 1 kΩ

SECCION DE LA RADIO

Gama de frecuencias
FM: 87,5 – 107,9 MHz (XL-G2000C/J)
87,5 – 108,0 MHz (XL-G2000A/U)
AM: 530 – 1.710 kHz (XL-G2000C/J)
531 – 1.620 kHz (XL-G2000A/U)
[Sintonizador de FM]
Sensibilidad útil: 15,3 dBf (1,6 μV/75 Ω)
Umbral de silenciamiento de 50 dB: 18,5 dBf (2,3 μV/75 Ω)
Selectividad de canal alternado (400 kHz): 65 dB
Respuesta de frecuencia: 40 – 15.000 Hz
Separación estereofónica: 35 dB
Razón de captura: 1,5 dB
[Sintonizador de AM]
Sensibilidad: 20 μV
Selectividad: 35 dB

Impédance de charge: 4 ohms (4 à 8 ohms possible)
Gamme de commande de tonalité
Graves: ± 10 dB à 100 Hz
Aigus: ± 10 dB à 10 kHz
Réponse en fréquence: 40 – 20.000 Hz
Rapport S/B: 70 dB
Niveau de sortie: 1,5 V/20 kΩ (pleine échelle)
Impédance de sortie: 1 kΩ

SECTION RADIO

Gamme des fréquences
FM: 87,5 à 107,9 MHz (XL-G2000C/J)
87,5 à 108,0 MHz (XL-G2000A/U)
AM: 530 à 1.710 kHz (XL-G2000C/J)
531 à 1.620 kHz (XL-G2000A/U)
[Syntoniseur FM]
Sensibilité utilisable: 15,3 dBf (1,6 μV/75 Ω)
Sensibilité de silencieux à 50 dB: 18,5 dBf (2,3 μV/75 Ω)
Sélectivité de canal voisin (400 kHz): 65 dB
Réponse en fréquence: 40 – 15.000 Hz
Séparation stéréo: 35 dB
Rapport de capture: 1,5 dB
[Syntoniseur AM]
Sensibilité: 20 μV
Sélectivité: 35 dB

ELECTRICAL CONNECTIONS

To prevent short circuits from occuring, while making connections, keep the battery's negative terminal disconnected.

We recommend that you make all electrical connections (see Fig. e) before installing the unit. If you're not sure of your ability to correctly install this unit, have it installed by a qualified service technician.

Note:

This unit is designed for 12 volts DC, Negative Ground. If your vehicle does not have 12 volts negative ground electrical system, you need a voltage inverter which can be bought from a JVC car audio dealer.

- Maximum input of speakers should be more than 22 W with an impedance of 4 to 8 Ω.

Cautions:

This unit uses BTL (Balanced Transformerless) amplifier circuitry, i,e., floating ground system, so please comply with the following:

1. Be sure you do not connect the black lined speaker leads to a common point.
2. Don't connect speaker leads to the metal body or chassis.
3. When not using the automatic antenna, cover the terminal with insulating tape to prevent the blue with white line (REMOTE) lead from shorting.

- Be sure to ground this unit to the car's chassis.

A. Connections

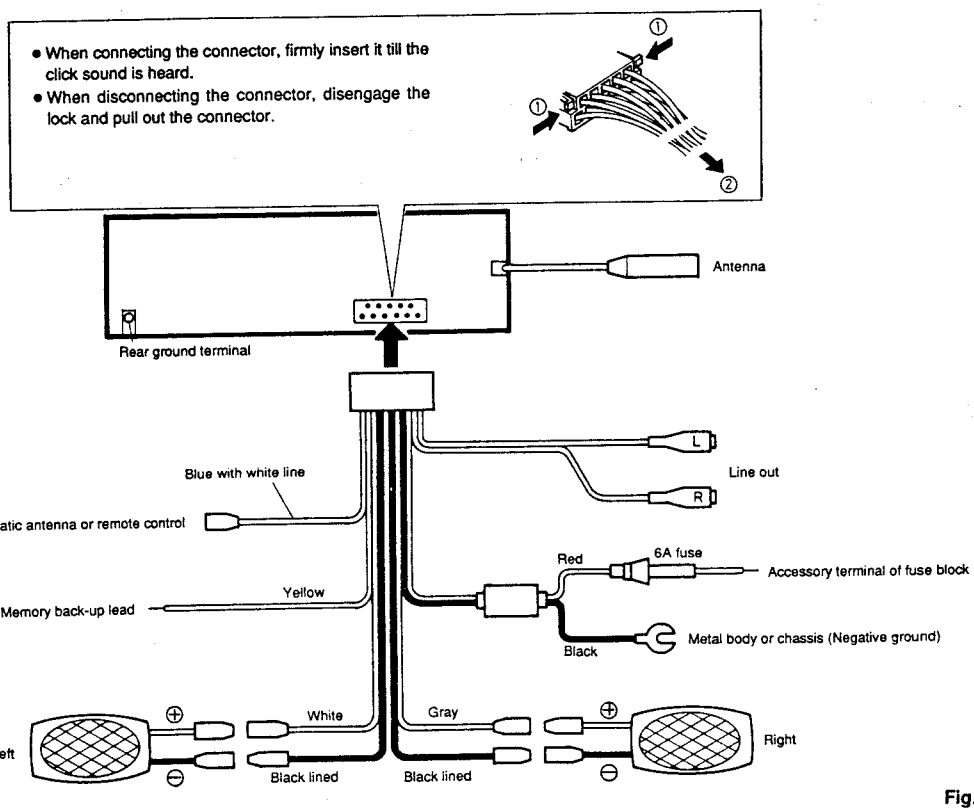


Fig. e

B. Line terminal connections (Line out)

Since this unit has line-out terminals, an amplifier and other equipment can be used to upgrade your car stereo system.

- When connecting an amplifier, connect this unit's line-out terminals with the amplifier's line-in terminals.
- **4-speaker connections by adding a power amplifier (Fig. f)**

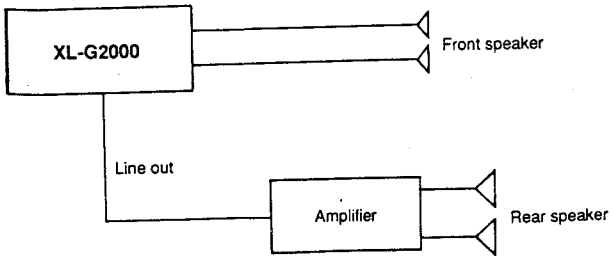


Fig. f

C. Automatic antenna connections

To use the automatic antenna, connect the automatic antenna terminal (blue with white line (REMOTE) lead). For details of automatic antenna installations, see the instruction manual of the automatic antenna.

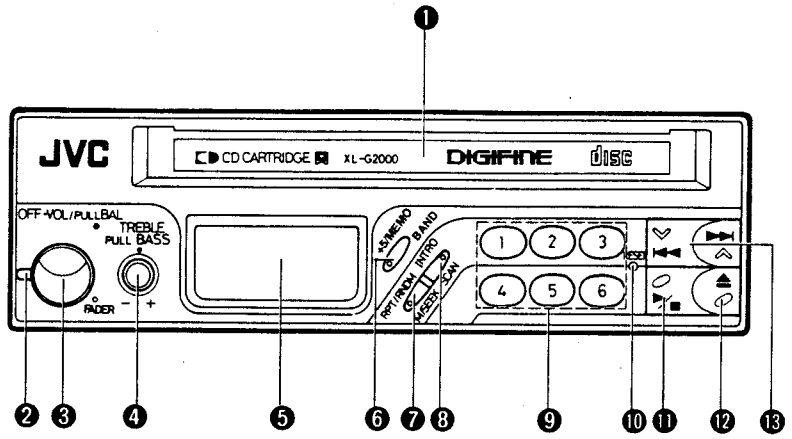
D. Memory back-up lead

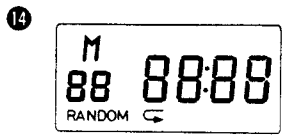
Connect this lead to a position where live power is supplied even when the ignition key is taken out.

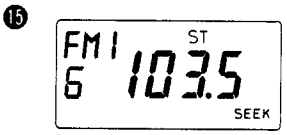
E. Fader control

- **4-speaker connections by adding a power amplifier**
  Use this control to balance the volume levels of the front and rear speakers. Turn counterclockwise to decrease the volume levels of the rear speakers and clockwise to decrease those of the front speakers. The overall volume level can be adjusted with the volume knob.
- **When used in a 2-speaker system**
  Set this control to the center position.

LOCATION OF CONTROLS UBICACION DE LOS CONTROLES EMPLACEMENT DES COMMANDES







❶ CD tray (or CD cartridge) loading slot
❷ FADER control
❸ Power on-OFF/volume (VOL)/Pull balance (PULL BAL) control
❹ TREBLE/PULL BASS control

❶ Ranura de carga de bandeja de CD (o cartucho de CD)
❷ Control desvanecedor (FADER)
❸ Control de encendido-apagado/volumen (OFF-VOL)/equilibrio (tirar) (PULL BAL)
❹ Control de agudos (TREBLE)/graves (PULL BASS) tirar

❶ *Fenêtre de chargement par tiroir CD (ou par cartouche)*
❷ *Commande d'équilibrage (FADER)*
❸ *Commande de marche-arrêt, de volume (OFF-VOL), de balance en tirant (PULL BAL)*
❹ *Commande des aigus (TREBLE)/des graves en tirant (PULL BASS)*

❺ Display window
❻ +5/Memory (MEMO) button
BAND button
❼ Repeat (RPT)/Random (RNDM) button
Manual (M)/SEEK button
❽ INTRO button
SCAN button
❾ Preset station/Track number buttons
❿ Microcomputer reset button (RESET)
⓫ Play (▶)/Stop (■) button
⓬ Eject (⏏) button
⓭ Skip (⏮ , ⏭)/Tuning (⌄ , ⌃) button
⓮ Indicators (for CD section)
Memory (M)
Track/Time (Min, Sec)
Repeat (↻)
RANDOM
no dISC
⓯ Indicators (for tuner section)
Frequency
Preset station
Band (FM1-FM2-FM3-AM)
ST (Stereo)
SEEK

❺ Display
❻ Botón de +5/memoria (MEMO)
Botón de banda (BAND)
❼ Botón de repetición (RPT)/reproducción aleatoria (RNDM)
Botón de manual (M)/búsqueda (SEEK)
❽ Botón de reproducción del comienzo de cada canción (INTRO)
Botón de exploración (SCAN)
❾ Botones de estaciones presintonizadas/número de pista
❿ Botón de reposición de microcomputadora (RESET)
⓫ Botón de reproducción (▶)/parada (■)
⓬ Botón de expulsión (⏏)
⓭ Botón de omisión (⏮ , ⏭)/sintonización (⌄ , ⌃)
⓮ Indicadores (para la sección del reproductor de CD)
Memoria (M)
Pista/duración (Min, Seq)
Repetición (↻)
RANDOM
no dISC
⓯ Indicadores (para la sección de sintonizador)
Frecuencia
Estación presintonizada
Banda (FM1-FM2-FM3-AM)
Estéreo (ST)
Búsqueda (SEEK)

❺ *Fenêtre d'affichage*
❻ *Touche +5/de mémoire (MEMO)*
Touche de gamme (BAND)
❼ *Touche de répétition (RPT)/lecture aléatoire (RNDM)*
Touche manuelle (M)/de recherche (SEEK)
❽ *Touche de balayage d'introductions (INTRO)*
Touche de balayage (SCAN)
❾ *Touches de stations préréglées/numéro de morceaux*
❿ *Touche de remise à zéro du micro-ordinateur (RESET)*
⓫ *Touche de lecture (▶)/arrêt (■)*
⓬ *Touche d'éjection (⏏)*
⓭ *Touche de saut (⏮ , ⏭)/syntonisation (⌄ , ⌃)*
⓮ *Indicateurs (pour la section lecteur de disque audionumérique)*
Mémoire (M)
Morceau/durée (Min, Sec)
Répétition (↻)
RANDOM
no dISC
⓯ *Indicateurs (pour la section syntoniseur)*
Fréquence
Station préréglée
Gamme (FM1-FM2-FM3-AM)
Stéréo (ST)
Recherche (SEEK)

PLAYING COMPACT DISCS — REPRODUCCION DE DISCOS COMPACTOS — LECTURE DE DISQUES AUDIONUMERIQUES

To play all tunes . . . . The following example shows using a compact disc which contains 10 tunes and a total playback time of 50 minutes, 45 seconds.

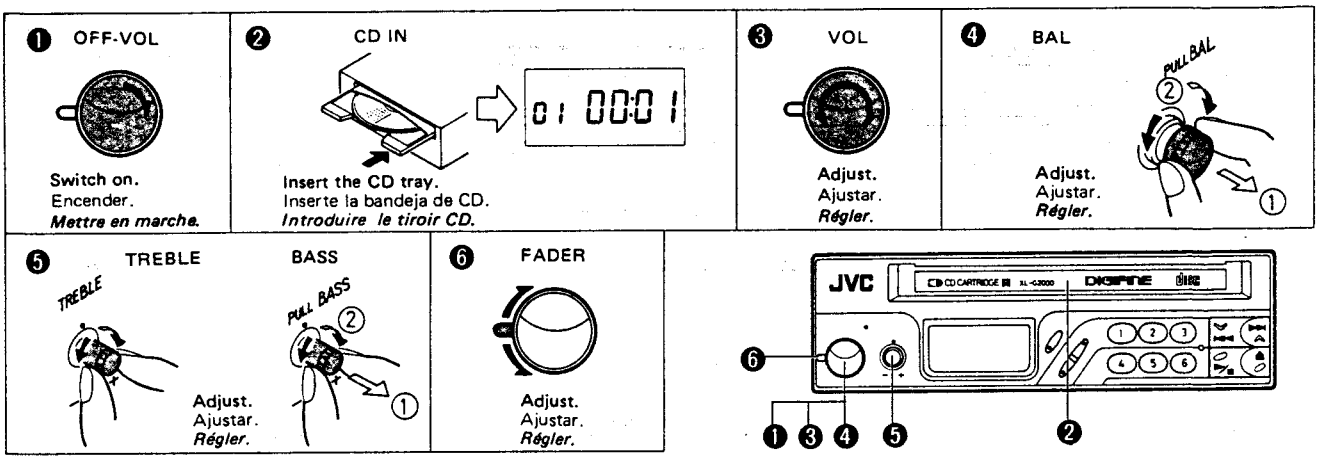
Operate in order shown.

Reproducción de todas las melodías . . . . En el siguiente ejemplo se utiliza un disco compacto con 10 melodías y una duración de 50 minutos, 45 segundos.

Opere en el orden indicado.

Pour lire tous les morceaux . . . . *L'exemple suivant montre l'utilisation d'un disque audionumérique qui contient 10 morceaux avec une durée totale de lecture de 50 minutes 45 secondes.*

Suivre l'ordre indiqué.



Direct access playback

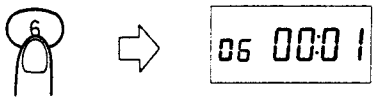
When the button with the number of any required tune is pressed, the required tune is played back immediately.

- To play back tunes numbered 1 to 6, press the required the track (tune) number button.
- To play back tunes numbered between 7 and 99, press +5 the required number of times and the Track No. button.

* +5 button
Each time this button is pressed, the number increases in increments of 5. First press this button, then press the Track No. button to set the tune number.

Reproducción por acceso directo

Al presionar el botón con el número de la melodía deseada, se reproduce inmediatamente dicha melodía.



- Para reproducir las melodías numeradas 1 a 6, presione el botón de número de la pista (melodía) requerida.
- Para reproducir las melodías numeradas de 7 a 99, presione +5 el número de veces requerido y el botón de número de poista.

* Botón +5
Cada vez que se presiona este botón, el número aumenta en unidades de 5. Presione primero este botón, luego pulse el botón de número de pista para fijar el número de canción.

Lecture à accès direct

Si la touche avec le numéro de tout morceau demandé est pressée, le morceau voulu est lu immédiatement.

- *Pour lire des morceaux numerotés de 1 à 6, appuyer sur la touche de numéro de piste (morceau) requise.*
- *Pour lire des morceaux numerotés entre 7 et 99, appuyer sur +5 le nombre de fois voulu et sur la touche de numéro de piste.*

* *Touche +5*
A chaque pression sur cette touche, le numéro augmente par pas de 5. Appuyer d'abord sur cette touche, puis appuyer sur la touche de numéro de morceau pour régler le numéro du morceau.

Skip playback

- During playback, when skipping to the beginning of the next tune or the tune being played back or the previous tune, the beginning of the tune is easily located and the playback starts from there.

To listen to the next tune . . .
Press the skip button (⏭) once to skip to the beginning of next tune.

Reproducción por salto

- Durante la reproducción, cuando se salta al comienzo de la próxima melodía, de la melodía reproducida o de la melodía previa, dicho comienzo es fácilmente ubicado y la reproducción se inicia desde allí.

Para escuchar la próxima melodía . . .
Presione el botón de omisión (⏭) una vez para saltar al comienzo de la próxima melodía.

Saut de lecture

- *Pendant la lecture, lors du passage au début du morceau suivant, du morceau actuel ou du morceau précédent, le début du morceau est aisément localisé et la lecture commence à partir de ce point.*

Pour écouter le morceau suivant . . .
Presser la touche de saut (⏭) une fois pour passer au début du morceau suivant.

To listen to the previous tune . . .
Press the skip button (⏮) to skip to the beginning of the tune being played back and press again to skip to the previous tune.

Para escuchar la melodía previa . . .
Presione el botón de omisión (⏮) para saltar al comienzo de la melodía que se reproduce y presione nuevamente para saltar a la melodía previa.

Pour écouter le morceau précédent . . .
Presser la touche de saut (⏮) pour passer au début du morceau qui est lu et presser à nouveau pour passer au début du morceau précédent.

Search playback

(to locate the required position on the disc)

- The required position can be located using fast-forward or reverse search during playback.
- Hold down the button and the search playback starts slowly and then gradually increases speed.
- Since a small sound (about one quarter of playback level) can be audible in both modes, release the button when the required position is located while monitoring the sound.

Reproducción por búsqueda

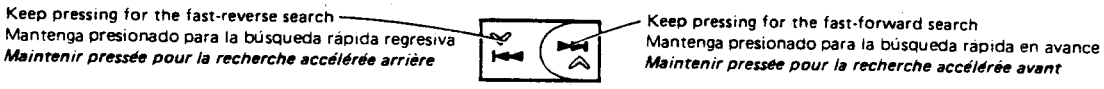
(para ubicar la posición requerida en el disco)

- La posición requerida puede ubicarse usando la búsqueda en avance o retroceso durante la reproducción.
- Presione el botón y se iniciará la búsqueda, aumentando posteriormente su velocidad en forma gradual.
- Puesto que se puede escuchar un sonido muy bajo (aproximadamente un cuarto del nivel de reproducción) en ambos modos, suelte el botón cuando ubique la posición requerida mientras monitorea el sonido.

Recherche en lecture

(pour localiser la position voulue sur le disque)

- *La position voulue peut être localisée en utilisant la recherche accélérée avant ou arrière pendant la lecture.*
- *Appuyer sur la touche et la lecture de recherche commence lentement et puis la vitesse augmente progressivement.*
- *Comme un léger son (environ le quart du niveau de lecture) peut être audible dans les deux modes, relâcher la touche quand la position voulue est atteinte en contrôlant le son.*


Keep pressing for the fast-reverse search
Mantenga presionado para la búsqueda rápida regresiva
Maintenir pressée pour la recherche accélérée arrière
Keep pressing for the fast-forward search
Mantenga presionado para la búsqueda rápida en avance
Maintenir pressée pour la recherche accélérée avant

Programmed playback

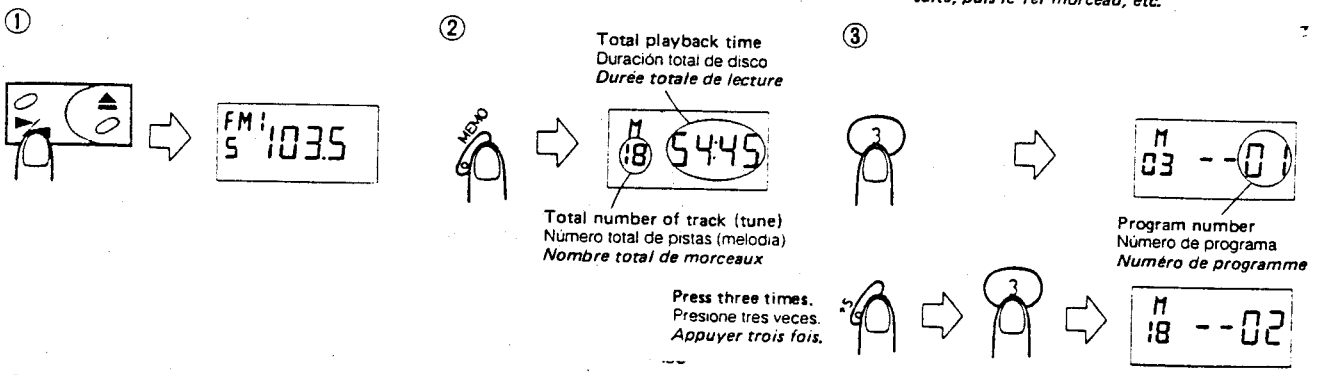
- Programmed playback can be performed up to 15 tunes (max.) in any required order; for example, you can listen to the 3rd tune first and the 18th tune next, then the 1st tune, etc.

Reproducción programada

- Puede programarse la reproducción de hasta 15 melodías (máx) en cualquier orden: por ejemplo, usted puede escuchar la tercera melodía primero, luego la decimoctava, después la primera, etc.

Lecture programmée

- *La lecture programmée peut être effectuée pour jusqu'à 15 morceaux (max.) dans tout ordre voulu, par exemple, vous pouvez écouter le 3ème morceau en premier et le 18ème morceau à la suite, puis le 1er morceau, etc.*



① Press the ▶/■ button to stop CD playback.
② Press the MEMO button for more than 1 second. "M", the total number of tracks (tunes) and the total playback time are shown on the display.
③ Press the number of the required tune; the number is stored in memory.
④ Repeat the previous procedure to program other tunes.
⑤ Press the ▶/■ button to start programmed playback.

① Presione el botón ▶/■ para detener la reproducción del disco compacto.
② Presione la tecla MEMO por mas de 1 segundo. Aparecerá "M", el número total de pistas (canciones) y el tiempo total de reproducción en el display.
③ Presione el número de la melodía deseada; el número se almacena en memoria.
④ Repita el procedimiento anterior para programar otras melodías.
⑤ Presione el botón ▶/■ para iniciar la reproducción programada.

① *Appuyer sur la touche ▶/■ pour arrêter la lecture CD.*
② *Appuyer sur la touche MEMO pendant plus d'une seconde. "M", le nombre total de morceaux et la durée de lecture totale sont montrés sur l'affichage.*
③ *Appuyer sur le numéro de morceau voulu; le numéro est stocké en mémoire.*
④ *Refaire la procédure précédente pour programmer d'autres morceaux.*
⑤ *Appuyer sur la touche ▶/■ pour commencer la lecture programmée.*

Notes:

1. Programming is not possible during CD playback.
2. Programming is possible by the previous procedure from step ② even when a disc is not loaded (for example: tuner mode). However, when a disc is loaded and the tune number which has been stored (e.g. tune number 10) cannot be located on the disc (e.g. because it has only 9 tunes), the programmed tune number is cancelled.
3. Programming is cancelled when a disc is unloaded.
4. Direct access playback and random playback can be performed even during programmed playback. Press the MEMO button for more than 1 second to restart programmed playback.
5. Press the ▶▶| side of the skip button to check the stored tune number(s) during programmed playback.

Notas:

1. No es posible programar durante la reproducción de un CD.
2. Es posible realizar una programación mediante el procedimiento anterior desde el paso ② sin el disco en la unidad (por ejemplo: modo de sintonizador). Sin embargo, al colocar el disco y si no puede ubicarse el número de melodía (por ej. número de melodía 10) almacenado (porque el disco tiene 9 melodías), el número programado queda cancelado.
3. La programación se cancela al extraer el disco.
4. La reproducción por acceso directo y aleatoria puede realizarse inclusive durante la reproducción programada. Presione el botón MEMO por más de 1 segundo para reiniciar la reproducción programada.
5. Presione el lado ▶▶| del botón de omisión para verificar el (los) número(s) de melodía almacenado durante la reproducción programada.

Remarques:

1. *La programmation n'est pas possible pendant la lecture CD.*
2. *La programmation est possible par la procédure précédente à partir de l'étape ② même si le disque n'est pas chargé (par exemple: dans le mode syntoniseur). Toutefois, si un disque est chargé et que le numéro de morceau mémorisé (par exemple le numéro 10) ne peut pas être localisé sur le disque (par exemple parce qu'il ne contient que 9 morceaux), le numéro de morceau programmé est annulé.*
3. *La programmation est annulée quand un disque est retiré.*
4. *La lecture à accès direct et la lecture aléatoire peuvent être effectuées même pendant la lecture programmée. Appuyer sur le bouton MEMO pendant plus d'une seconde pour reprendre la lecture programmée.*
5. *Appuyer sur le côté ▶▶| de la touche de sant pour contrôler le(s) numéro(s) de morceau mémorisé(s) pendant la lecture programmée.*

Random playback

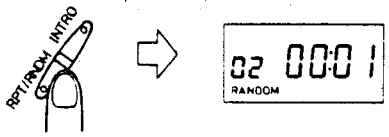
The microcomputer in this unit can select the tunes on a disc automatically in random order.
Press the RNDM button for more than 1 second while playing a CD to start the random playback. Press this button again to cancel random playback.

Reproducción aleatoria

La microcomputadora de esta unidad puede seleccionar automáticamente las melodías del disco por orden aleatorio.
Presione el botón RNDM por más de 1 segundo mientras reproduce un disco compacto para iniciar la reproducción aleatoria. Presione nuevamente este botón para cancelar este modo.

Lecture aléatoire

Le micro-ordinateur dans cet appareil peut sélectionner les morceaux sur un disque automatiquement dans un ordre aléatoire.
Appuyer sur la touche RNDM pendant plus de 1 seconde tout en lisant un disque audionumérique pour commencer la lecture aléatoire. Appuyer sur cette touche à nouveau pour annuler la lecture aléatoire.



Repeat playback

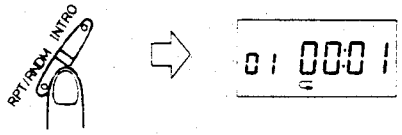
When the RPT button is pressed, the tune being played is repeated. Press this button again to cancel repeat playback. The ⊆ indication goes out and all the tunes are repreated or programmed playback is resumed (when the RPT button is pressed during programmed playback).

Reproducción repetida

Al presionar el botón RPT, se repite la melodía reproducida en ese momento. Presione este botón nuevamente para cancelar la reproducción repetida. La indicación ⊆ desaparecerá, repitiéndose todas las melodías o reanudándose la reproducción programada misma (cuando se presiona el botón RPT durante la reproducción programada).

Lecture répétée

Si la touche RPT est pressée, le morceau en cours de lecture sera répété. Appuyer à nouveau sur cette touche pour annuler la lecture répétée. L'indication ⊆ s'éteint et tous les morceaux sont répétés ou la lecture programée est reprise (si la touche RPT est pressée pendant la lecture programmée).



Intro scan

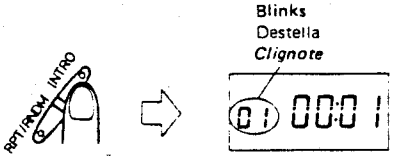
When the INTRO button is pressed, the first 10 seconds of each tune are played back sequentially. During this time, the track No. being played back blinks in the display. When the required tune is heard, press the INTRO button again to start normal playback (or programmed playback).

Exploración por reproducción del comienzo de cada melodía

Al presionar el botón INTRO, se reproducen secuencialmente los primeros 10 segundos de cada melodía. Durante este tiempo, destella el No. de pista reproducida en el display. Cuando escuche la canción deseada, presione nuevamente el botón INTRO para iniciar la reproducción normal (o reproducción programada).

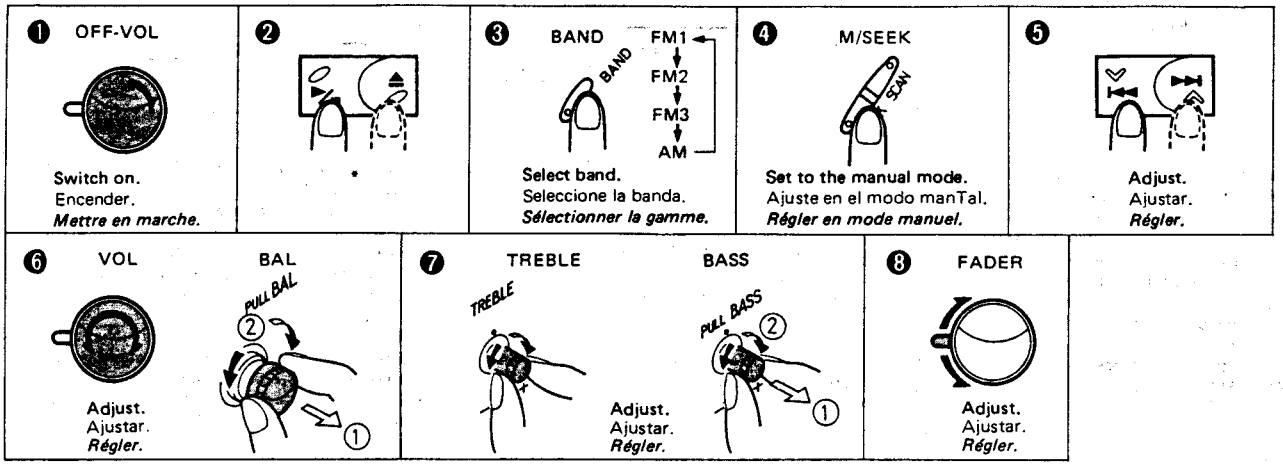
Balayage des introductions

Si la touche INTRO est pressée, les 10 premières secondes de chaque morceau sur tous les disques dans les deux magasins sont lues en séquence. Pendant ce temps, le numéro de morceau en cours de lecture clignote dans l'affichage. Quand le morceau voulu est entendu, appuyer à nouveau sur la touche INTRO pour commencer la lecture normale (ou lecture programmée).



RADIO OPERATION — OPERACION DE LA RADIO — FONCTIONNEMENT DE LA RADIO

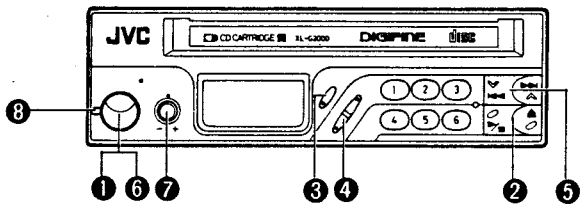
Operate in order shown. **Opere en el orden indicado.** **Suivre l'ordre indiqué.**



* When a CD tray (or CD cartridge) is loaded.

* Cuando se coloca una bandeja de CD (o cartucho de CD).

* *Quand un tiroir CD (ou cartouche CD) est mis en place.*



MANUAL TUNING

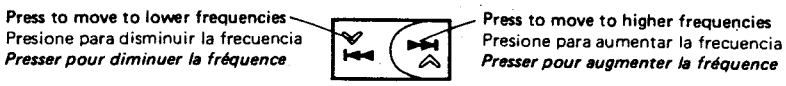
Set to the manual mode using the M/SEEK button. When SEEK is not shown in the display, the unit is in the manual mode. Then, by pressing the Tuning button, you can move up and down the frequency band. The frequency band is scanned as long as either side of this button is pressed. You can step through the frequency in 200 kHz units (C/J version) or 100 kHz units (A/U version) for FM and 10 kHz units (C/J version) or 9 kHz units (A/U version) for AM.

SINTONIZACION MANUAL

Ajuste en el modo manual con el botón M/SEEK. Cuando no aparece SEEK en el display, la unidad está en el modo manual. Entonces, presionando el botón de sintonización, puede desplazarse en forma ascendente o descendente por la banda de frecuencias. Las frecuencias son exploradas en tanto se mantenga presionado cualquier lado de este botón. Así, usted puede explorar la banda de frecuencias en unidades de 200 kHz (versión C/J) o 100 kHz (versión A/U) para FM y de 10 kHz (versión C/J) o 9 kHz (versión A/U) para AM.

SYNTONISATION MANUELLE

Passer en mode manuel en utilisant la touche M/SEEK. Si SEEK n'est pas montré sur l'affichage, l'appareil est en mode manuel. Puis, en appuyant sur la touche de syntonisation, vous pouvez décaler vers le haut ou le bas la gamme de fréquence. La gamme de fréquence est balayée tant que l'un des côtés de cette touche est pressé. Vous pouvez changer la fréquence par unités de 200 kHz (version C/J) ou de 100 kHz (version A/U) en FM et par unités de 10 kHz (version C/J) ou de 9 kHz (version A/U) en AM.


Press to move to lower frequencies
Presione para disminuir la frecuencia
Presser pour diminuer la fréquence
Press to move to higher frequencies
Presione para aumentar la frecuencia
Presser pour augmenter la fréquence

SEEK TUNING

Set to the seek mode using the M/SEEK button; the SEEK indicator will light. Then, by pressing the ⋁ or ⋀ button, the unit tunes to the adjacent station with a lower or higher frequency.

SINTONIZACION POR BUSQUEDA

Ajuste en el modo de búsqueda con el botón M/SEEK; se encenderá el indicador SEEK. Luego, presionando el botón ⋁ o ⋀, la unidad se sintonizará en la próxima estación con una frecuencia más baja o más alta.

SYNTONISATION PAR RECHERCHE

Passer en mode de recherche en utilisant la touche M/SEEK; l'indicateur SEEK s'allumera. Puis, en appuyant sur la touche ⋁ ou ⋀, l'appareil s'accorde sur la station voisine avec une fréquence plus basse ou plus élevée.

SCAN BUTTON TUNING

Use the SCAN button for automatic scanning of the FM and AM frequency bands. When this button is pressed, each station is monitored for approx. 5 seconds, and the frequency flashes during this time. After 5 seconds have elapsed, the frequency is advanced to the next station which in turn is monitored for 5 seconds. To stop scanning, press the SCAN button again.

SINTONIZACION CON EL BOTON DE EXPLORACION

Utilice el botón SCAN para explorar automáticamente las bandas de frecuencias FM y AM. Cuando se presiona este botón, cada estación es monitoreada por aproximadamente 5 segundos, tiempo durante el cual parpadea la frecuencia. Transcurrido este lapso, la frecuencia cambia a la estación siguiente que también es monitoreada por 5 segundos. Para detener la exploración, vuelva a presionar el botón SCAN.

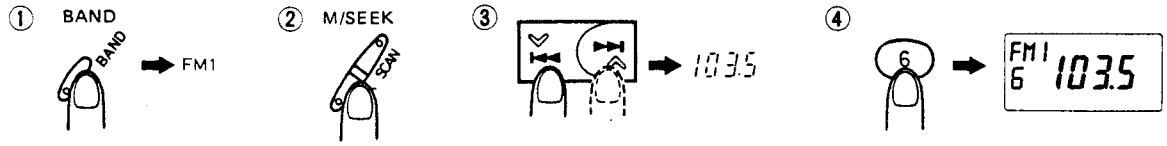
TOUCHE DE SYNTONISATION PAR BALAYAGE

Utilise la touche SCAN pour le balayage automatique des bandes de fréquences FM et AM. Quand elle est pressée, chaque station est contrôlée pendant environ 5 secondes et la fréquence clignote pendant ce temps. Après ces 5 secondes, la fréquence avance jusqu'à la station suivante qui est à son tour interceptée pendant 5 secondes. Pour arrêter la recherche, appuyer à nouveau sur la touche SCAN.

PRESET BUTTON TUNING

6 stations in each band (FM1, FM2, FM3 and AM) can be preset as follows;

- **Example (when presetting Preset Station button "6" to FM station at 103.5 MHz)**



① Select the FM1 band using the BAND button.
② Set to the manual mode.
③ Tune to the desired station.
④ Press Preset Station button "6" for more than 2 sec. (When "6" flashes in the Preset Station display, the station is preset.)

- Repeat the above procedure for each of the other 5 stations using a different Preset Station button each time.
- Follow the above procedure for the other bands (FM2, FM3 and AM).

Notes:

- The preset station is erased when a station is newly preset because the new station is stored in memory.
- The preset station is erased when the power supply to the memory circuit is interrupted during battery replacement, etc. When this occurs, preset the station again.

SINTONIZACION CON EL BOTON DE ESTACION PRESINTONIZADA

Pueden presintonizarse 6 estaciones por banda (FM1, FM2, FM3 y AM) del siguiente modo;

- **Ejemplo (cuando preajusta el botón "6" en la estación por FM en 103,5 MHz)**

① Seleccione la banda FM1 utilizando el botón BAND.
② Ajuste en el modo manual.
③ Sintonice la estación deseada.
④ Presione el botón de estación presintonizada "6" durante más de 2 seg. (Cuando destella "6" en el display de estación presintonizada, la estación ha quedado presintonizada.)

- Repita este procedimiento para cada una de las 5 estaciones restantes utilizando un botón de preajuste diferente cada vez.
- Siga el procedimiento mencionado con las demás bandas (FM2, FM3 y AM).

Notas:

- La estación presintonizada se borra al preajustar una nueva estación en la memoria.
- La estación previamente presintonizada se borra al preajustar una nueva estación en la memoria. La estación presintonizada se borra cuando se corta el suministro de energía al circuito de la memoria durante el cambio de pila, etc. En tal caso, presinto-nicela nuevamente.

TOUCHE DE PREREGLAGE

6 stations de chaque gamme (FM1, FM2, FM3 et AM) peuvent être préréglées comme suit;

- **Exemple (pour prérégler la touche "6" de stations préréglées sur une station FM à 103,5 MHz)**

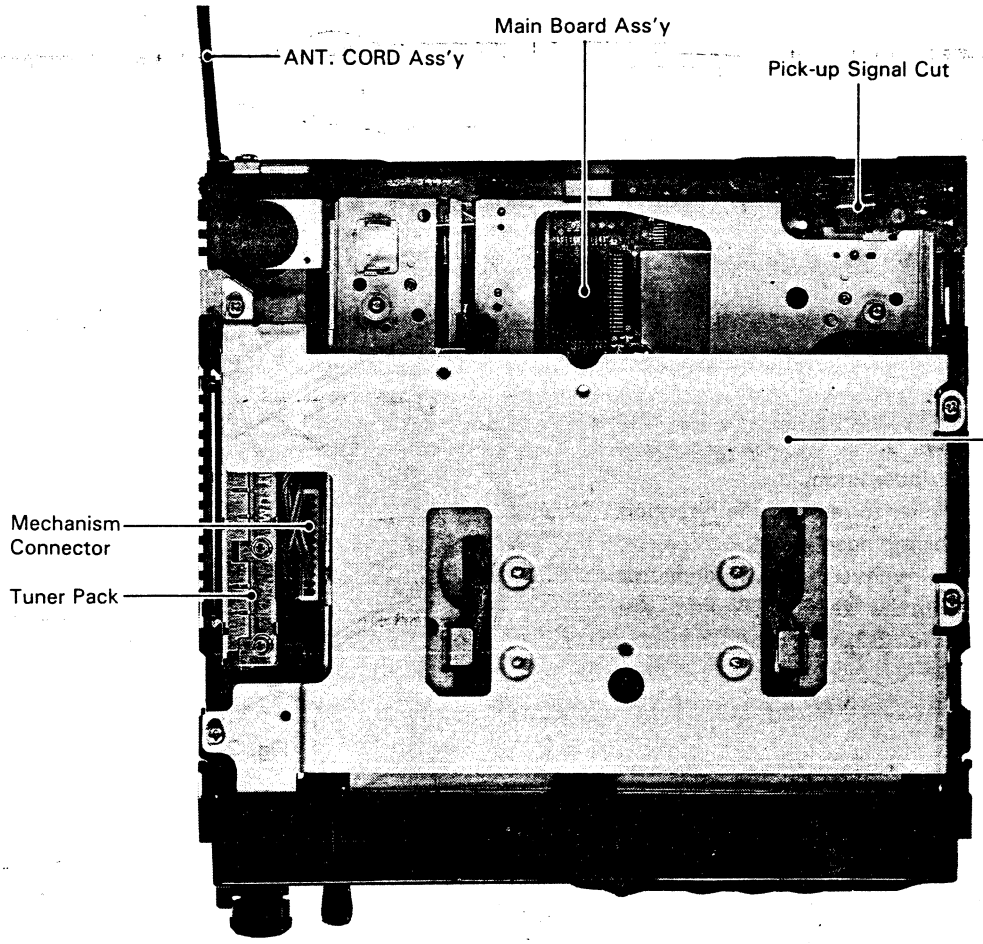
① *Sélectionner la gamme FM1 en utilisant la touche BAND.*
② *Régler sur le mode manuel.*
③ *Syntoniser la station voulue.*
④ *Appuyer sur la touche "6" de stations préréglées pendant plus de 2 secondes. (Quand "6" clignote dans l'affichage de stations préréglées, la station est préréglée.)*

- *Répéter le procédé ci-dessus pour chacune des 5 autres stations en utilisant une touche de stations préréglées différente à chaque fois.*
- *Suivre le procédé ci-dessus pour les autres gammes (FM2, FM3 et AM).*

Remarques:

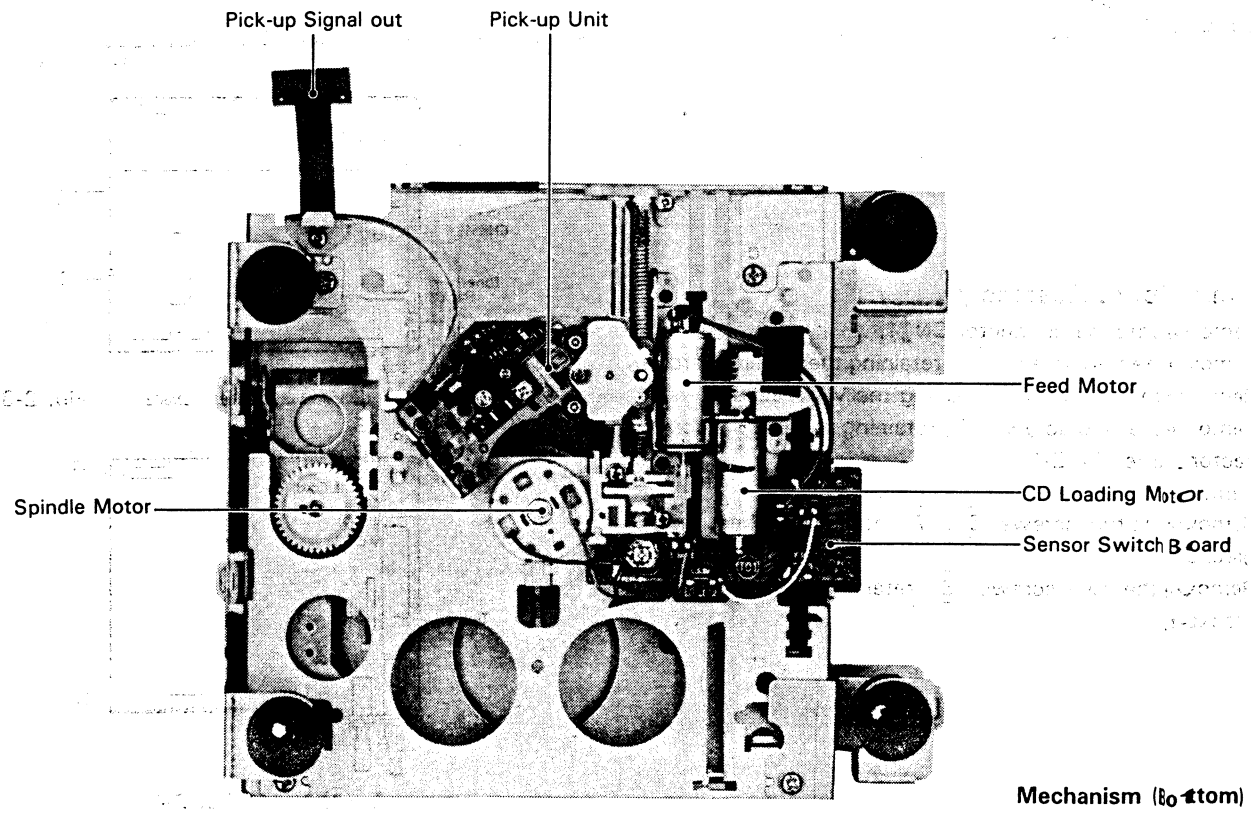
- *La station préréglée est effacée quand une station est nouvellement préréglée car la nouvelle station est mise dans la mémoire.*
- *La station présélectionnée est éliminée quand l'alimentation du circuit de mémoire est interrompue pendant le remplacement de la batterie ou dans des cas semblables. Dans ce cas présélectionner à nouveau la station.*

1 Location of Main Parts



Top View

Fig. 1-1



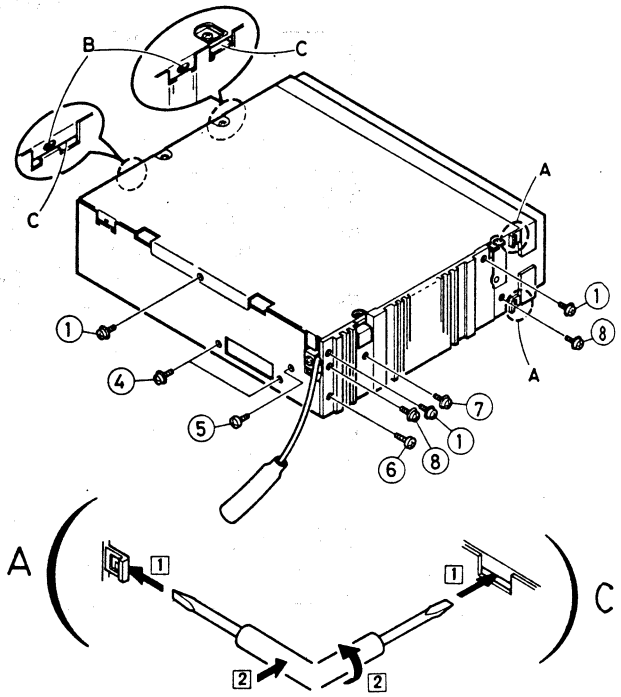
Mechanism (Bottom)

Fig. 1-2

2 Disassembly Instructions

■ Top Cover

1. Remove three screws (1) retaining the top cover from left and rear side.
2. In order to remove the hook (B), use a flat-headed screwdriver to turn section (C) to the right side remove it.



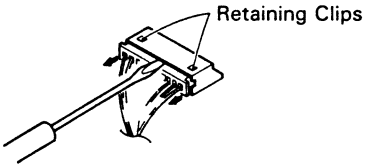
■ Nose Piece Assembly

1. Remove the volume knob/fader knob.
2. Use a flat-headed screwdriver to remove the retention claws (A) on both side of the nose piece.
3. From the Main P.C. Board remove the wire connector CN601 CN602 running from the Main P.C. Board to the Switch P.C. Board. (See Fig. 2-3)

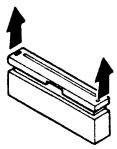
Fig. 2-1

■ CD Mechanism Assembly

1. Remove four screws (2) retaining the Mechanism Assembly from top side.
2. Remove the CN551 connector (e), (sensor/motor connector).
3. Raise the mechanism from the front side and remove CN501.



Insert a small screw driver etc., between the connector (e) and the plug so that the retaining clips disengage.



Pull both sides toward the arrow marks on CN501

Fig. 2-2

■ Main Board Assembly

1. Remove antenna connector CN11.
2. Remove the two screws (11) retaining the circuit board.
3. Remove the screw (3) retaining the VR bracket.
4. Remove the two screws (4) retaining the 11 PIN connector. (See Fig. 2-1)
5. Remove the screw (5) retaining Q901.
6. Remove the two screws (6), (7) retaining the heat sink bracket.
7. Remove the two screws (8) retaining the heat sink bracket.

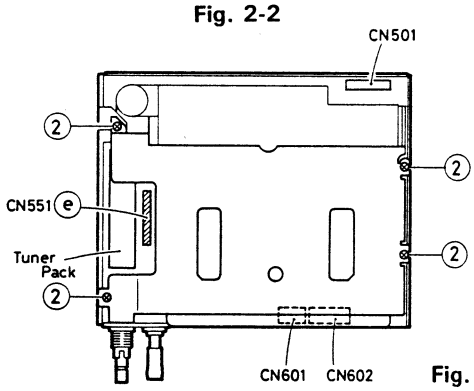


Fig. 2-3

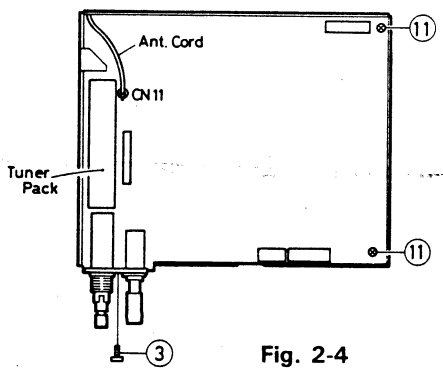


Fig. 2-4

■ LCD/Control Switch Board Assembly

Remove the five screws ⑨, ⑩ holding the board assembly.

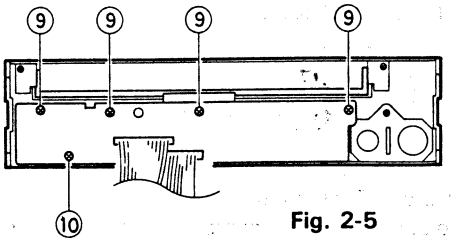


Fig. 2-5

■ Pick-up unit

Remove one screw, retaining the shaft for pick-up unit.

3 Adjustments Procedure

Radio section

Equipment required

- AM standard signal generator
- FM standard signal generator
- Stereo modulator
- Oscilloscope
- E.V. meter (Electric voltmeter)
- Digital tester

Notes:

1. The AM section is subject to non-adjustment assembly.
2. The FM front-end and AM tuner pack are repaired by means of the unit replacement only.

Connections for Adjustment

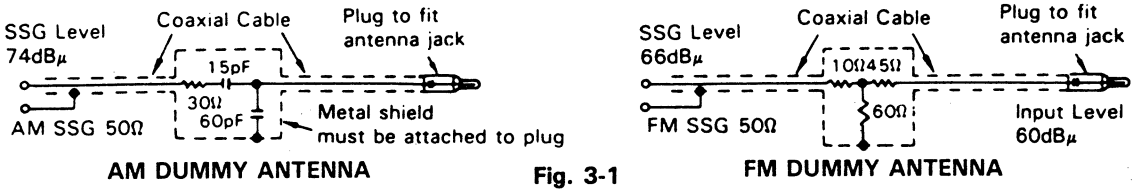
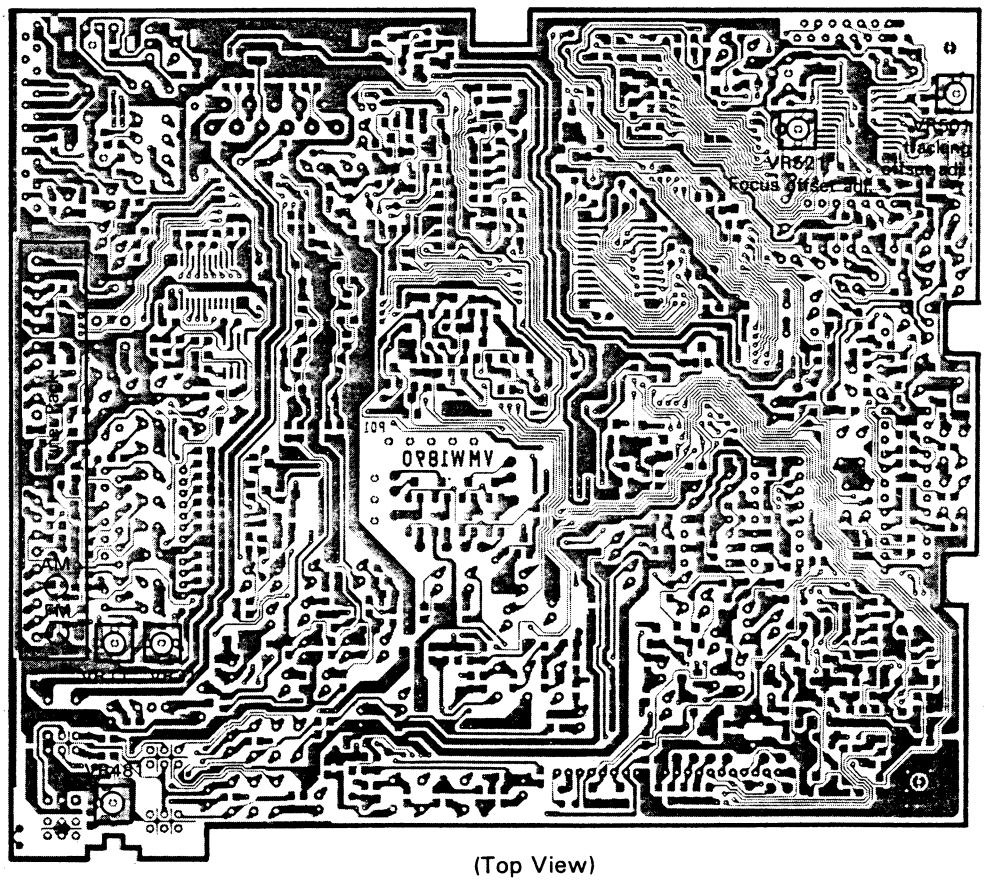


Fig. 3-1



(Top View)

Fig. 3-2

■ Main Adjustments

1. Separation adjustment

With signal of 97.9 MHz, 66 dBμ (400 Hz, 67.5 kHz dev., 19 kHz, 7.5 kHz dev.) supplied from the signal generator.

1) Adjust the BALANCE control to equalize signal levels of L and R channels,
2) Adjust VR31 to minimize leak of a channel's output to the other channel and to balance signal levels on L and R channels.

2. BLEND adjustment

With signal of 97.9 MHz, 52 dBμ (400 Hz, 67.5 kHz dev., 19 kHz, 7.5 kHz dev.) supplied from the signal generator to L or R channel, adjust VR11 so that AUX output level of the other channel becomes 20 dB and signal levels of the two channels are balanced.

3. SD level adjustment

With signal of 97.9 MHz, 28 dBμ (24 dBμ-E/G version) (400 Hz, 22.5 kHz dev.) supplied from the signal generator, adjust the volume inside the tuner pack to be set at the point where output level at TP9 turns from Low to High. In addition, it is advised that the level alteration from High to Low should take place with an input level of 27 dB. (23 dB-E/B version)

4. SK/DK audio level adjustment

Receiving 400 Hz, 22.5 kHz dev. (SK + BK) + DK signal with setting of the volume 'MIN.' and ARI 'ON', adjust VR481 to obtain 7 mV ± 1 dB for LINE OUT level. (After this adjustment, the tuner and player should be used as a kit.)

- With setting of the volume 'MIN.', LINE OUT volume increases by turning the SK/DK 'ON' with input signal of 30 dBμ ([SK + BK] + DK) + 1 kHz, 22.5 kHz dev.
- In the mode of CD playing with setting of the SK/DK 'ON', reception of (SK + BK) + DK signal changes the set mode to stopping CD play with sound output of FM signal.

CD section

- **Measuring instruments**
  Test disc (JVC CRG-1106)
  Digital oscilloscope (100 MHz) or Tracking offset meter
  Pulse jitter meter.

- Before proceeding to do the adjustments, make sure to clean the pickup lens section with a cotton stick or a cleaning kit.

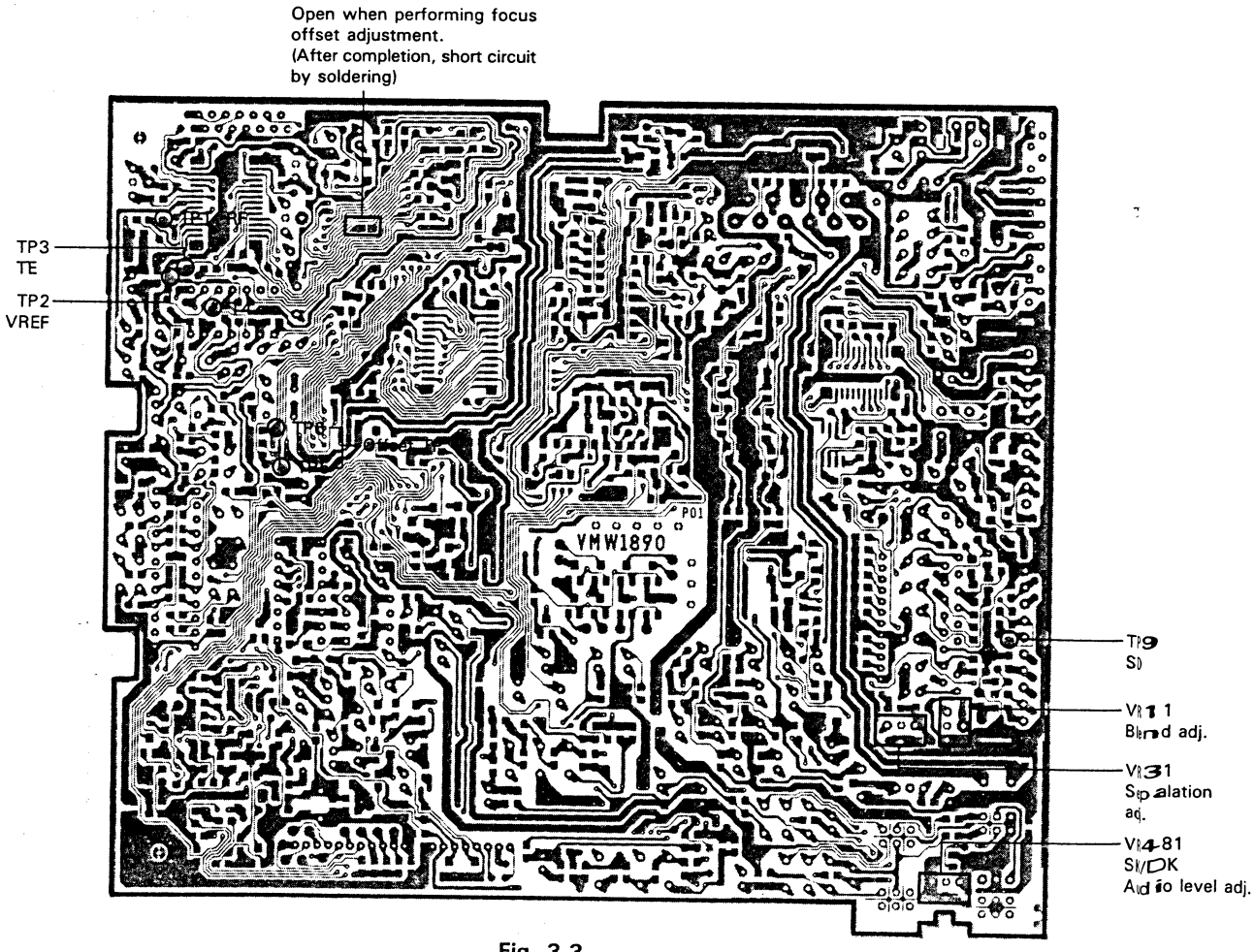


Fig. 3-3 (Bottom View)

1. RF Check

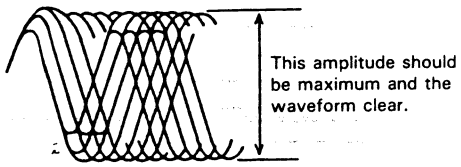
Note: When the pickup unit is replaced, proceed to measure and adjust the following items.

1) With the jitter meter connected between TP1 (RF) and TP2 (VREF), play back the test disc (track 1) to confirm that the meter reads 25 nsec or less.
2) Connect the oscilloscope between TP1 and TP2 to confirm that peak-to-peak value of eye-pattern waveform is within 1.1 ± 0.2 V.
3) If measured values do not meet the above specifications, the new pickup unit is out of order.

2.Tracking offset adjustment

- Measuring instruments: Oscilloscope, Test disc
- Adjustment procedure:
  1) Connect the oscilloscope between TP3 (TE) and TP2 (VREF).
  2) Play the disc.
  3) Shortcircuit TP2 and TP4.
  4) Adjust VR501 so that the DC level of the tracking error signal (oscilloscope waveform) becomes zero.
  When the tracking offset meter is used for measurement, it should read "0" (zero).
  Note: Adjust VR501 so that the waveform is vertically symmetric about the zero level. use a direct coupling oscilloscope input.

Eye pattern waveform



Tracking offset waveform

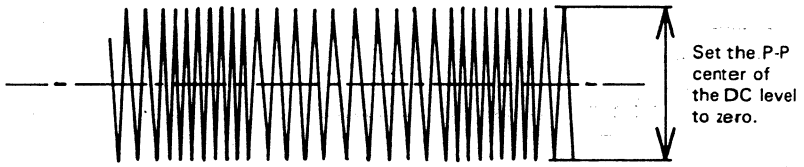


Fig. 3-4

3. Focus offset adjustment

1) Disconnect all other connections that of the CN901 connector.
2) Remove the short-circuit soldering of the solder pattern between terminals IC501 (20) and IC531 (12) . (The SEL signal will be turned off). After completed measurement, connect by soldering.
3) Insert a filter through the circuit board output terminal and connect an oscilloscope.
4) Turn the power ON.
5) Adjust VR521 so that the output waveform (DC) comes on the oscilloscope GND level.
(Set the electrical potential difference between TP5 and TP6 to zero.)

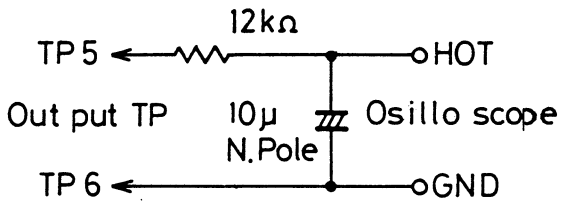
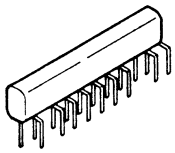


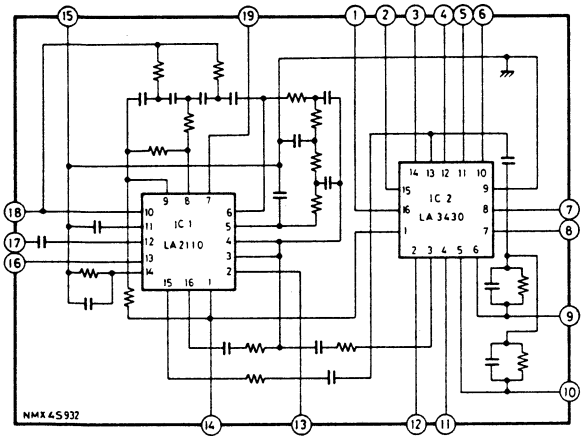
Fig. 3-5

4 Block Diagram

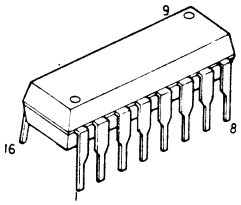
■ Integrated Circuit

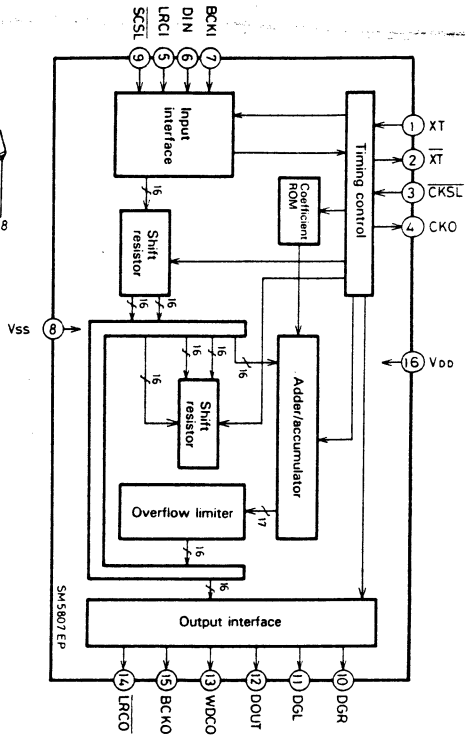
■ IC31 NMX4S932



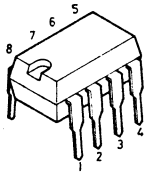


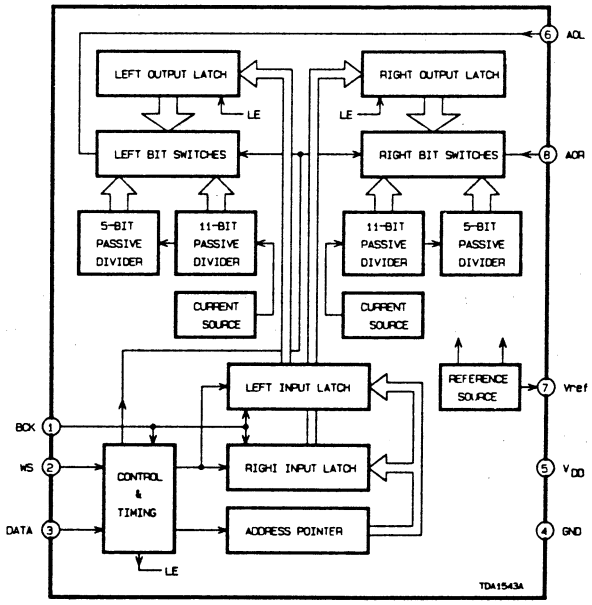
■ IC301 SM5807FP



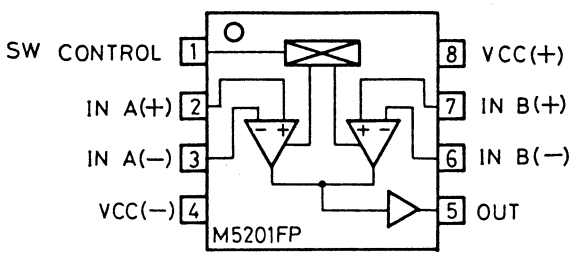


■ IC302 TDA1543A

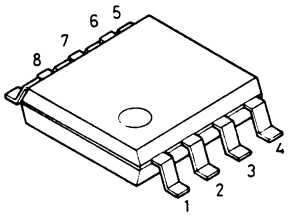




■ IC321/421 M5201FP



■ IC351 AN6558S



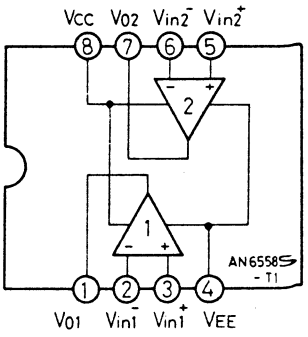
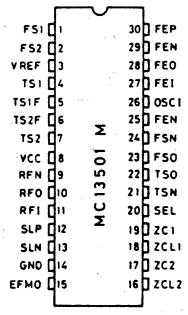
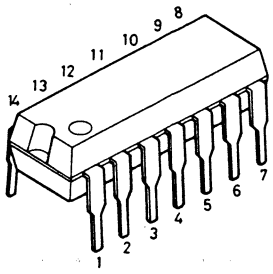


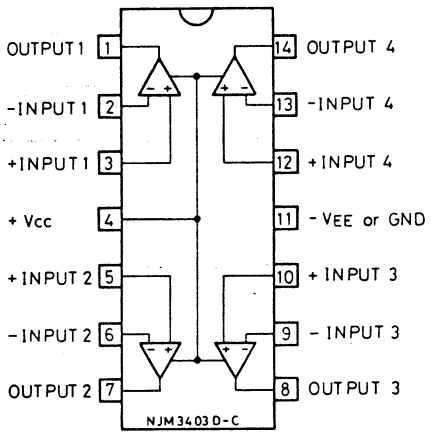
Fig. 4-1

■ IC501 MC13501M

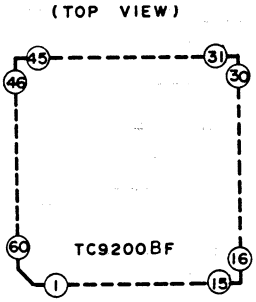


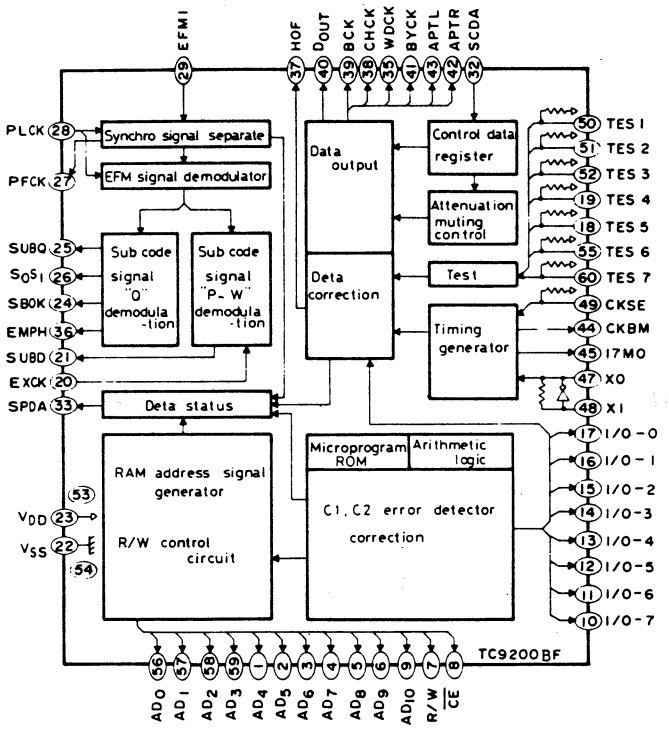
■ IC532 NJM3403D-C



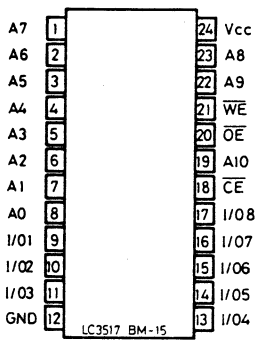


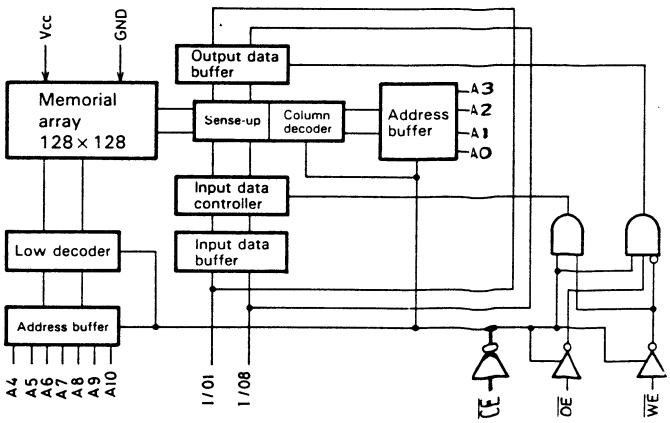
■ IC533 TC9200BF



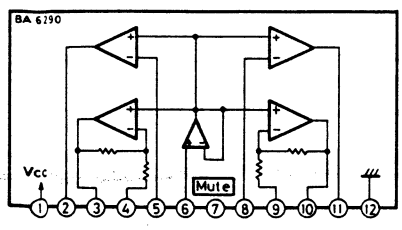


■ IC534 CXK5816MS-15L





■ IC561 BA6290



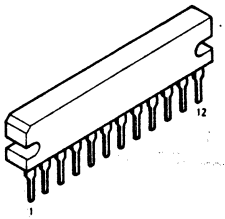
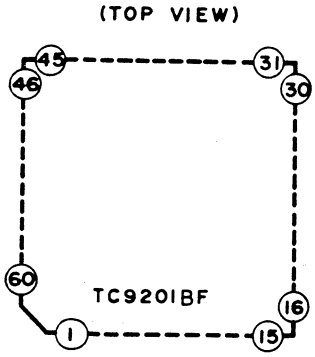
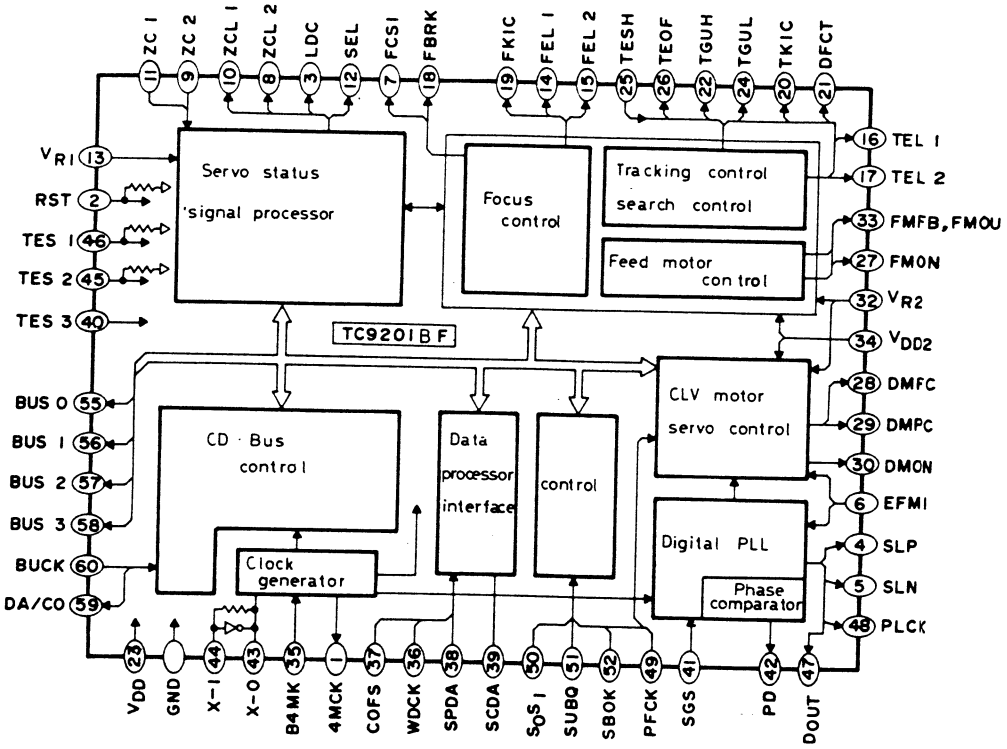


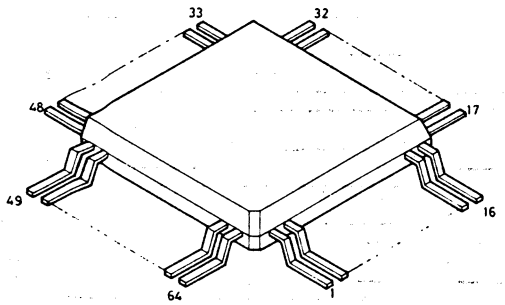
Fig. 4-2

■ IC531 TC9201BF





■ IC601 MN17581JCE



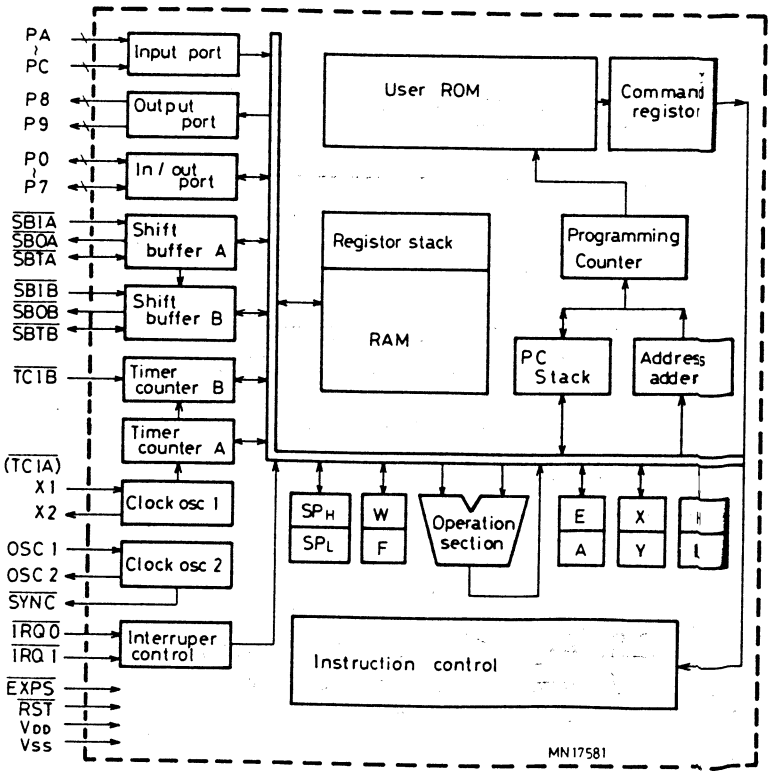
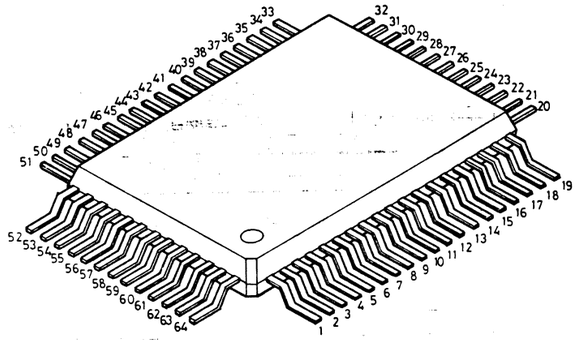


Fig. 4-3

• MN17581JCE

1	SEND 17	Tuner busy level detection "L": during tuner communication
2	RESET	Micom reset
5	X1	External flock input terminal. Fixed to "H" since it is not yet used.
6	GND	Micom grand
7	OSC 2	} 8 MHz oscillation. It is connected to X601 and oscillates the micom clock.
8	OSC 1	
9	VDD	Power supply, 5V
11	SEND 17	Tuner busy edge detection (negative edge detection)
12	INT	Power save reset detection (negative edge detection)
13	K0	Key scan input 0
14	K1	Key scan input 1
15	K2	Key scan input 2
16	K3	Key scan input 3
17	KS0	Key scan output 0
18	KS1	Key scan output 1
19	KS2	Key scan output 2
20	KS3	Key scan output 3
21	KS4	Key scan output 4
22	KS5	Key scan output 5
24	BUSY	Tuner communication clock request "L": active
25	CS	LCD sending enable output
26	SI1	LCD sending data output
27	SCK1	LCD sending clock output
28	DA/CO	TC9201 acknowledge input/output
29	BUS0	TC9201 data input/output 0
30	BUS1	TC9201 data input/output 1
31	BUS2	TC9201 data input/output 2
32	BUS3	TC9201 data input/output 3
33	BUCK	TC9201 data clock output
35	LM0	Disk loading motor output. "H" = Motor ON; "L" = OFF
36	LM1	Disk eject motor output. "H" = Motor ON; "L" = OFF
39	$\overline{CD}$/TUNER	Changeover of power supply to and from CD and tuner "H" = Tuner ON; "L" = CD ON
40	MUTE	Analog mute output. "H" = Mute ON; "L" = OFF
41	MODE 2	Tuner YES/NO selection. "H" = No tuner; "L" = YES
42	MODE 1	Key matrix selection. Under both the modes 1 and 2, XL-G2500 is used at "L".
43	TEST 2	} Test terminal for LCD display check. It is set to "H" under normal conditions.
44	TEST 1	
45	X RESET	TC9201 resetting output. "L": Active
54	EJECT	Eject end switch detection. "L": Eject end switch ON
55	L, START	Loading start switch detection. "L": Loading start switch
56	L, FINISH	Loading end switch detection. "L": Loading end switch
57	RESET	Rest switch detection. "L": Reset switch ON
58	TH. PROTECTOR	Abnormal heat detection. "L": Thermo protector mode
59	DK	Emergency annunciation (broadcasting) interruption detection. "L": DK interruption request; "H": Normal conditions. (It is fixed "H" level except G/GE version.)
60	SCK	Tuner communication clock input/output
61	SO	Tuner receiving clock input
64	POWER SAVE	Power save detection. "L": Active

■ IC701 UPD1723GF-533



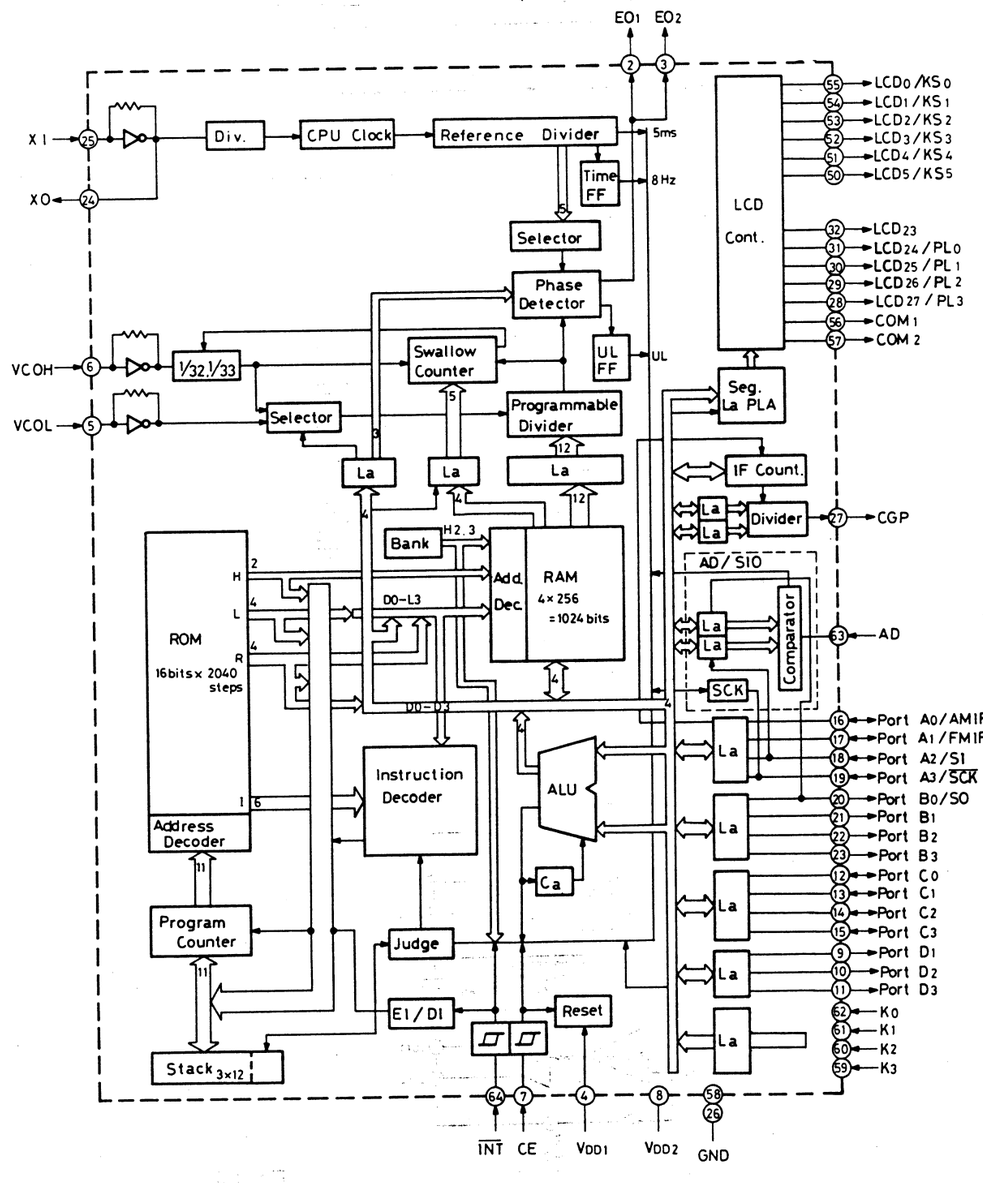
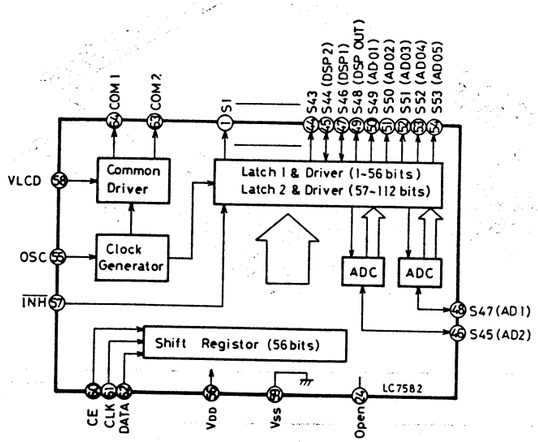
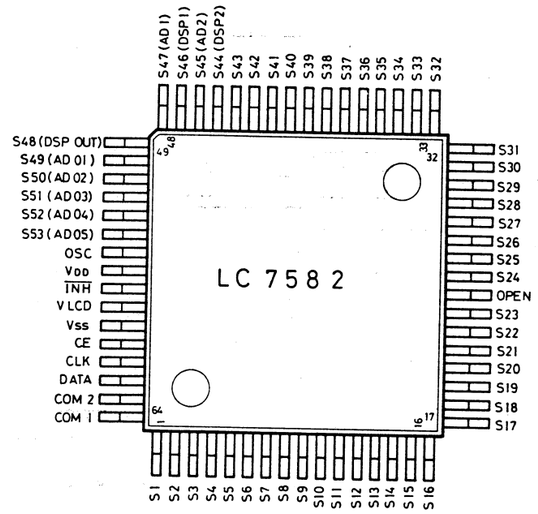


Fig. 4-4

■ IC971 LC7582A





■ IC151 TA8205AH

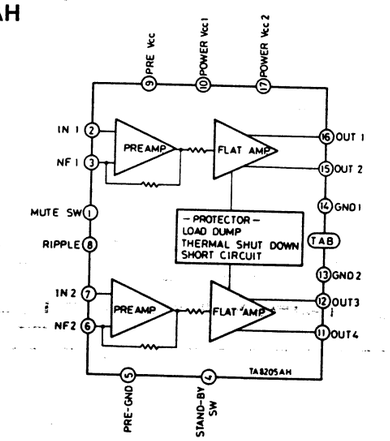


Fig. 4-5

■ Circuit Diagram

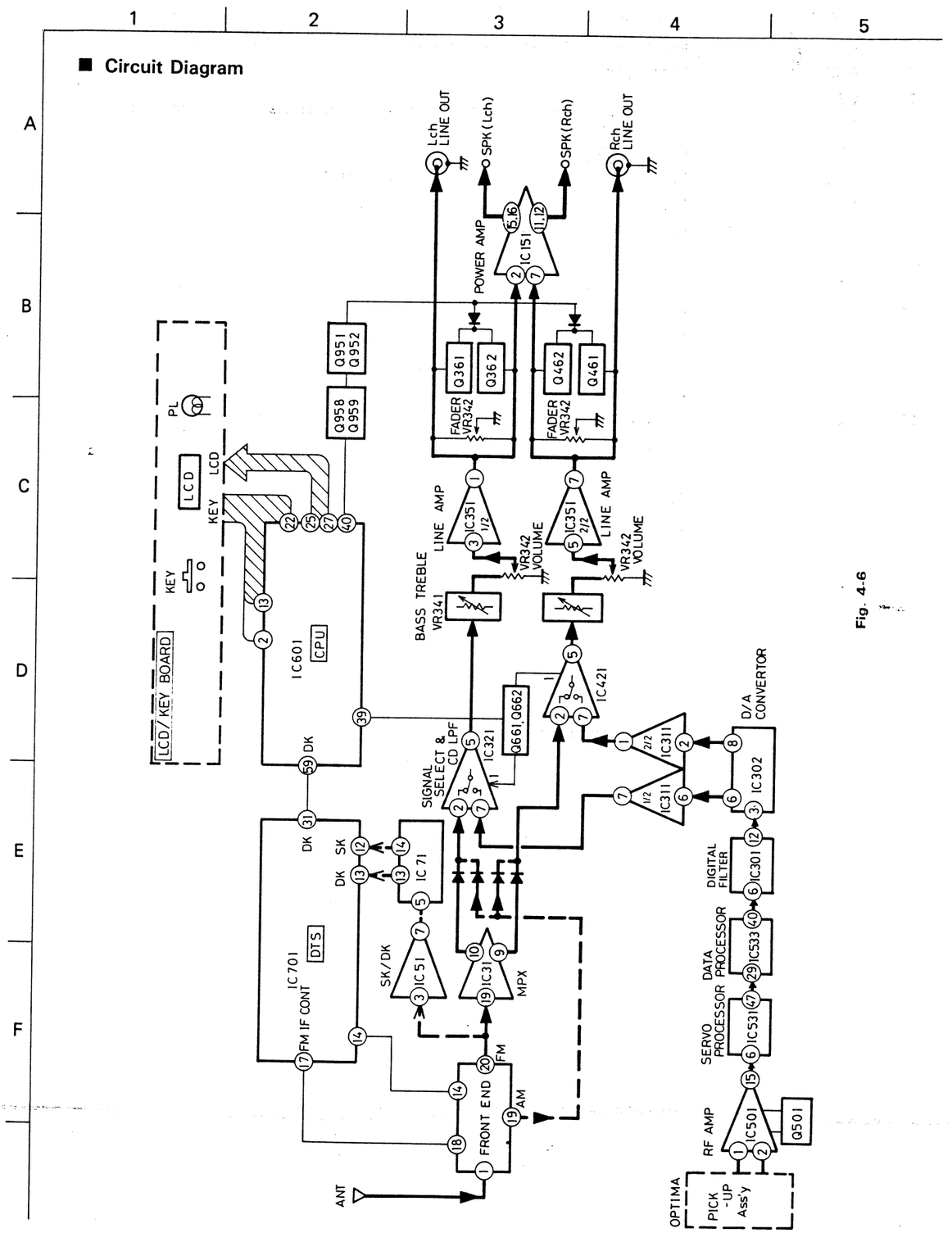


Fig. 4-6

5 Standard Schematic Diagram

■ Tuner Circuit <C/J Version>

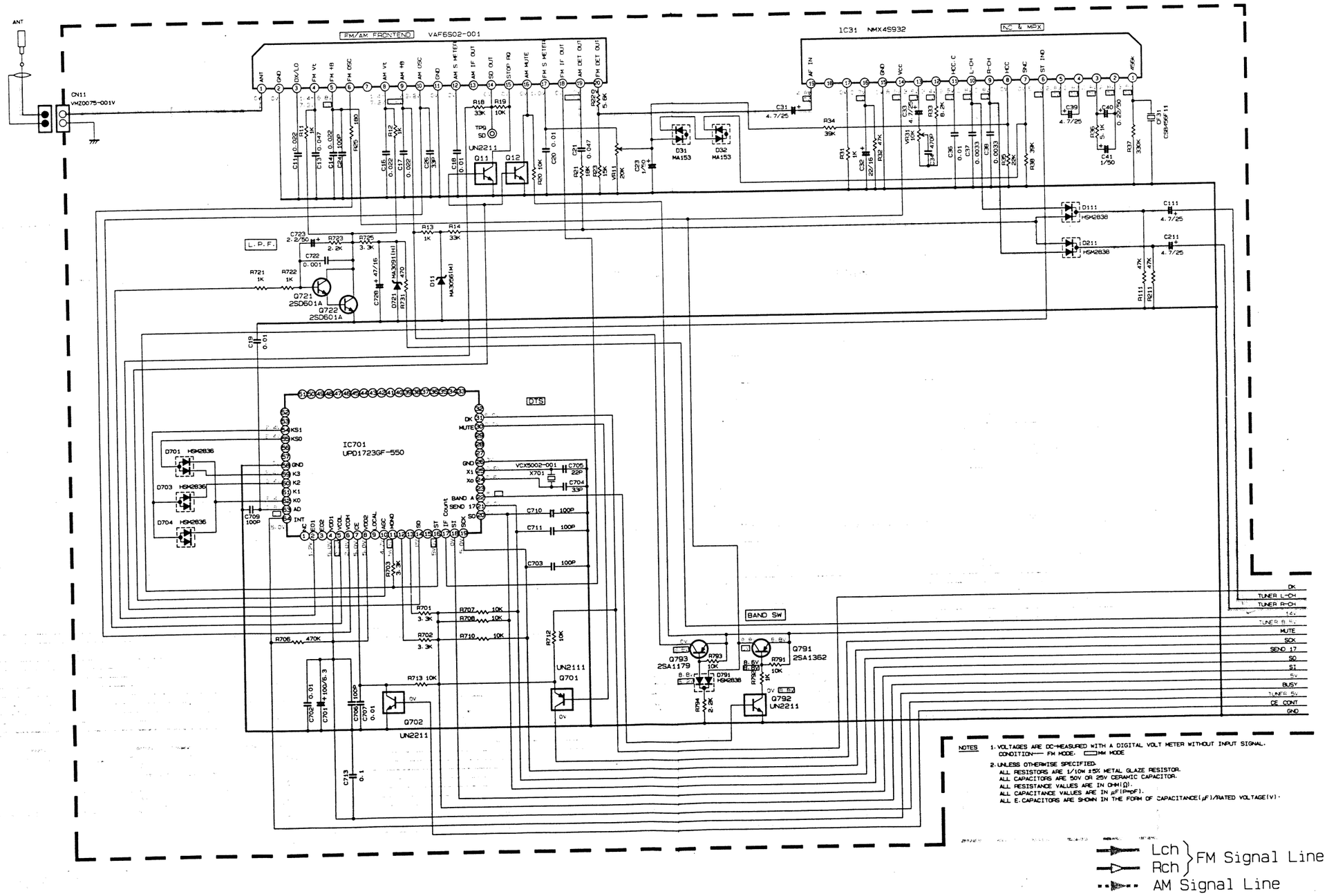


Fig. 5-1

■ Tuner Circuit <B/E Version>

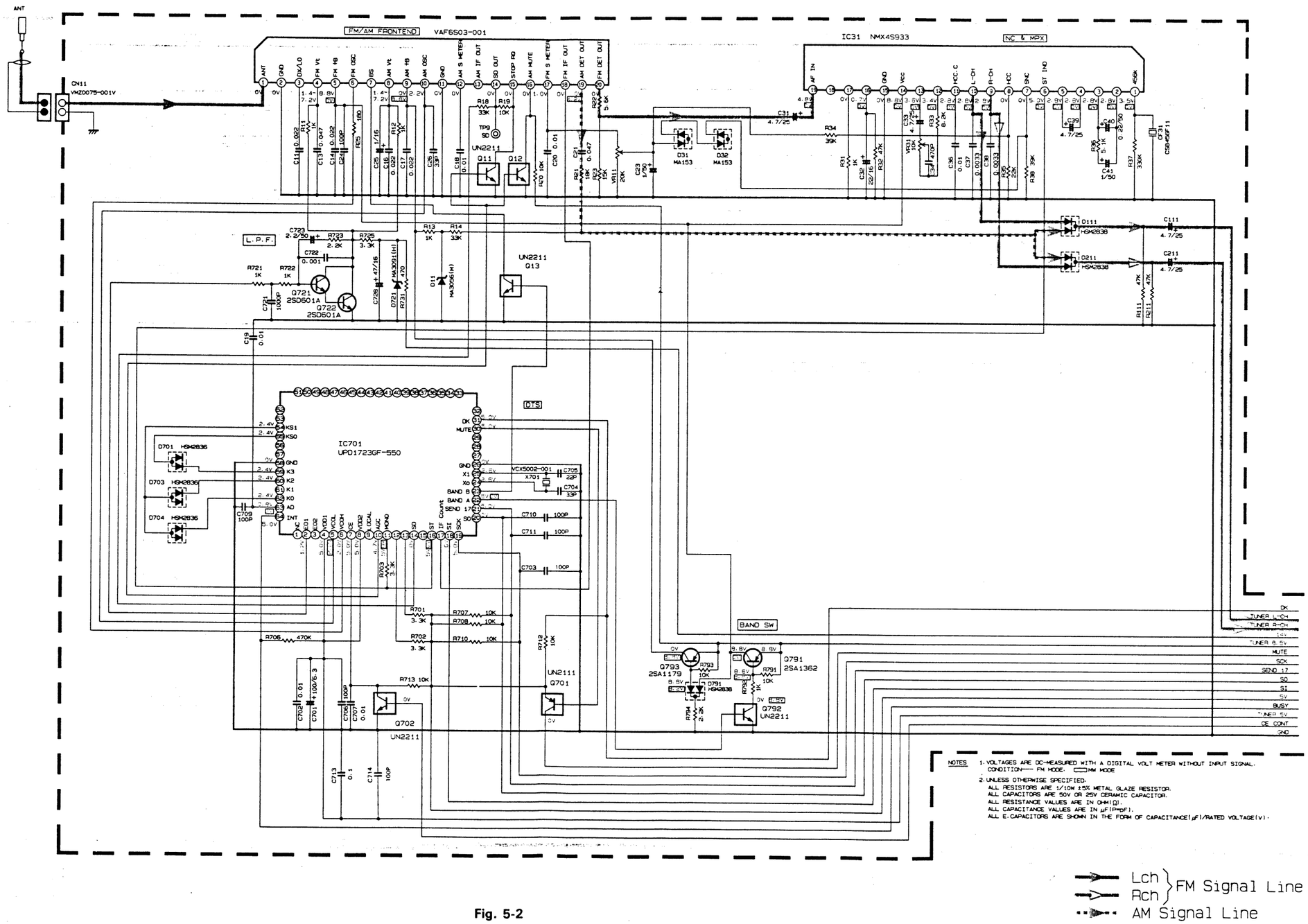
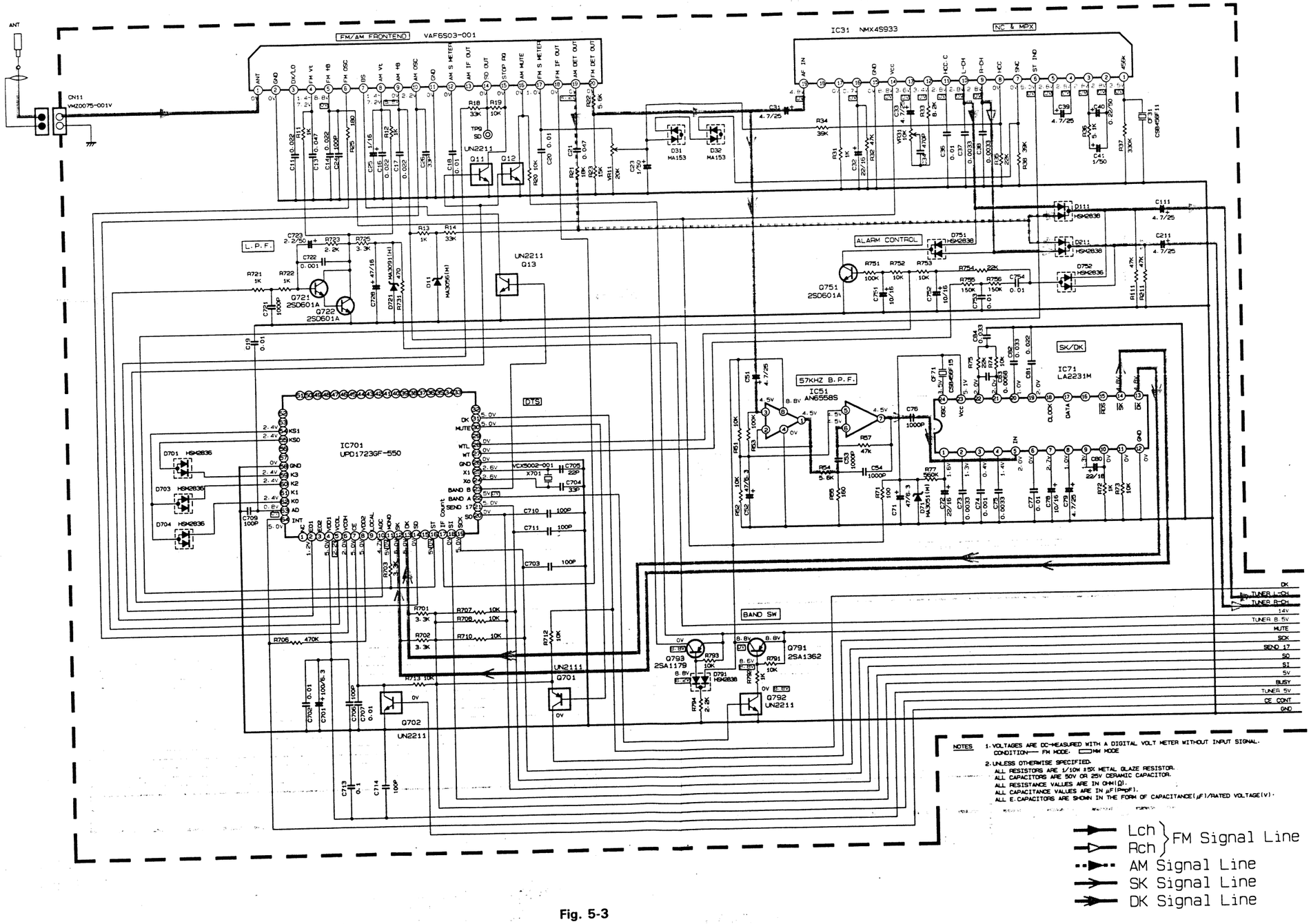


Fig. 5-2

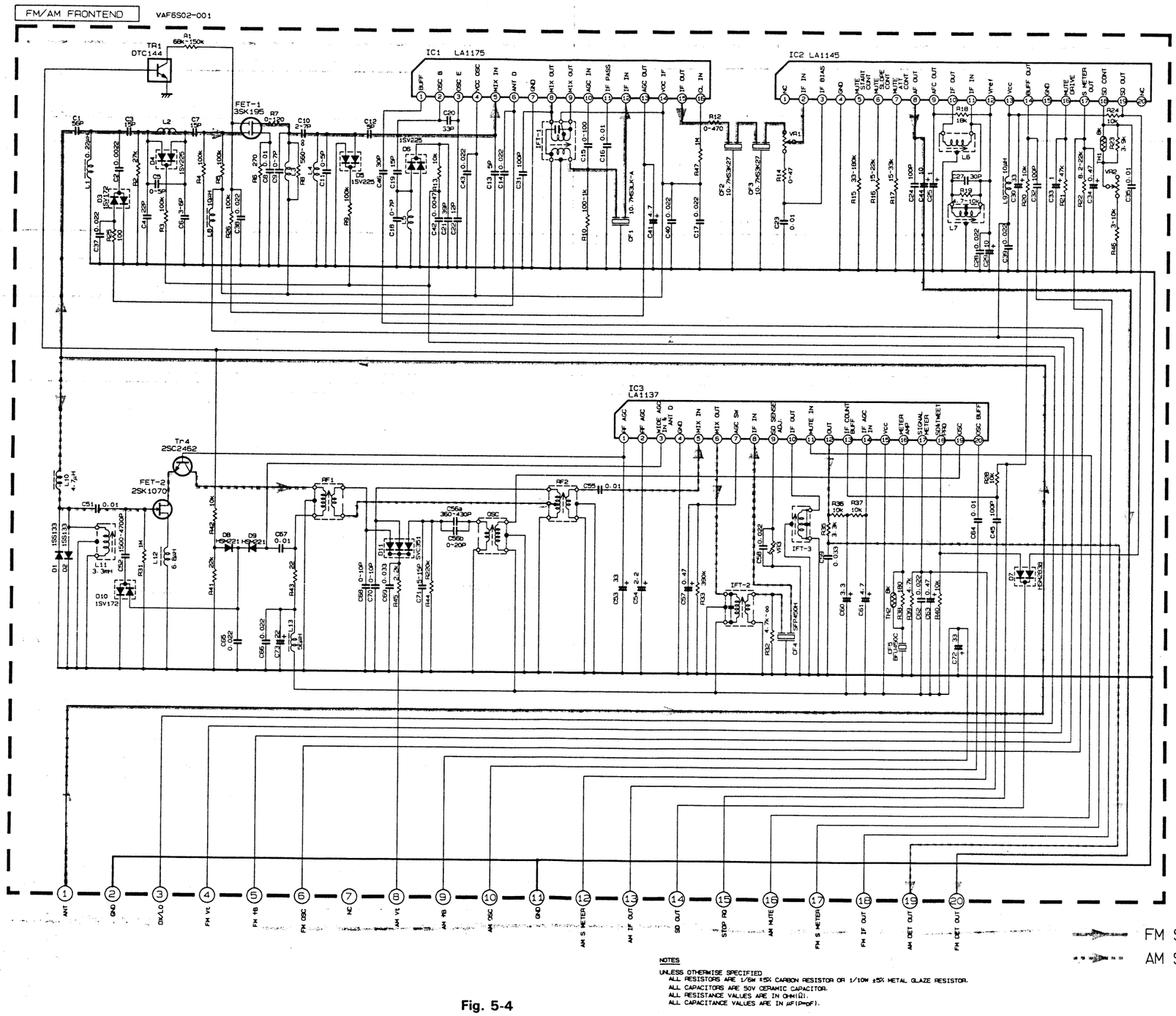
■ Tuner Circuit <G/GE Version>



NOTES 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION— FM MODE: STEREO MODE
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).

Fig. 5-3

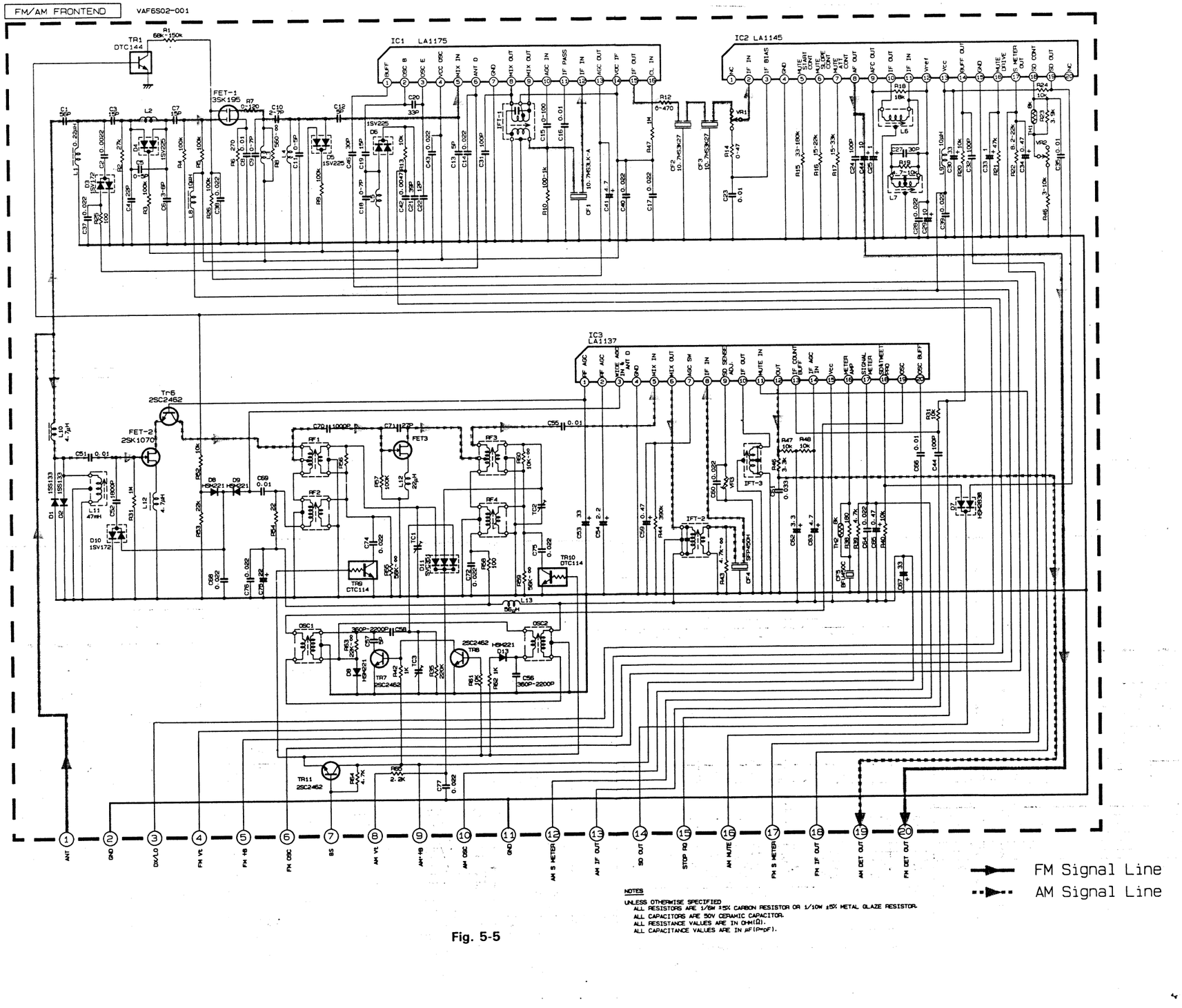
■ Front end Circuit <C/J Version>



NOTES
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE 1/8W ±5% CARBON RESISTOR OR 1/10W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).

Fig. 5-4

■ Front end Circuit <B/E/G/GE Version>



NOTES
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE 1/8W ±5% CARBON RESISTOR OR 1/10W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).

Fig. 5-5

■ Amplifier Circuit 1/2
<B/C/E/J Version>

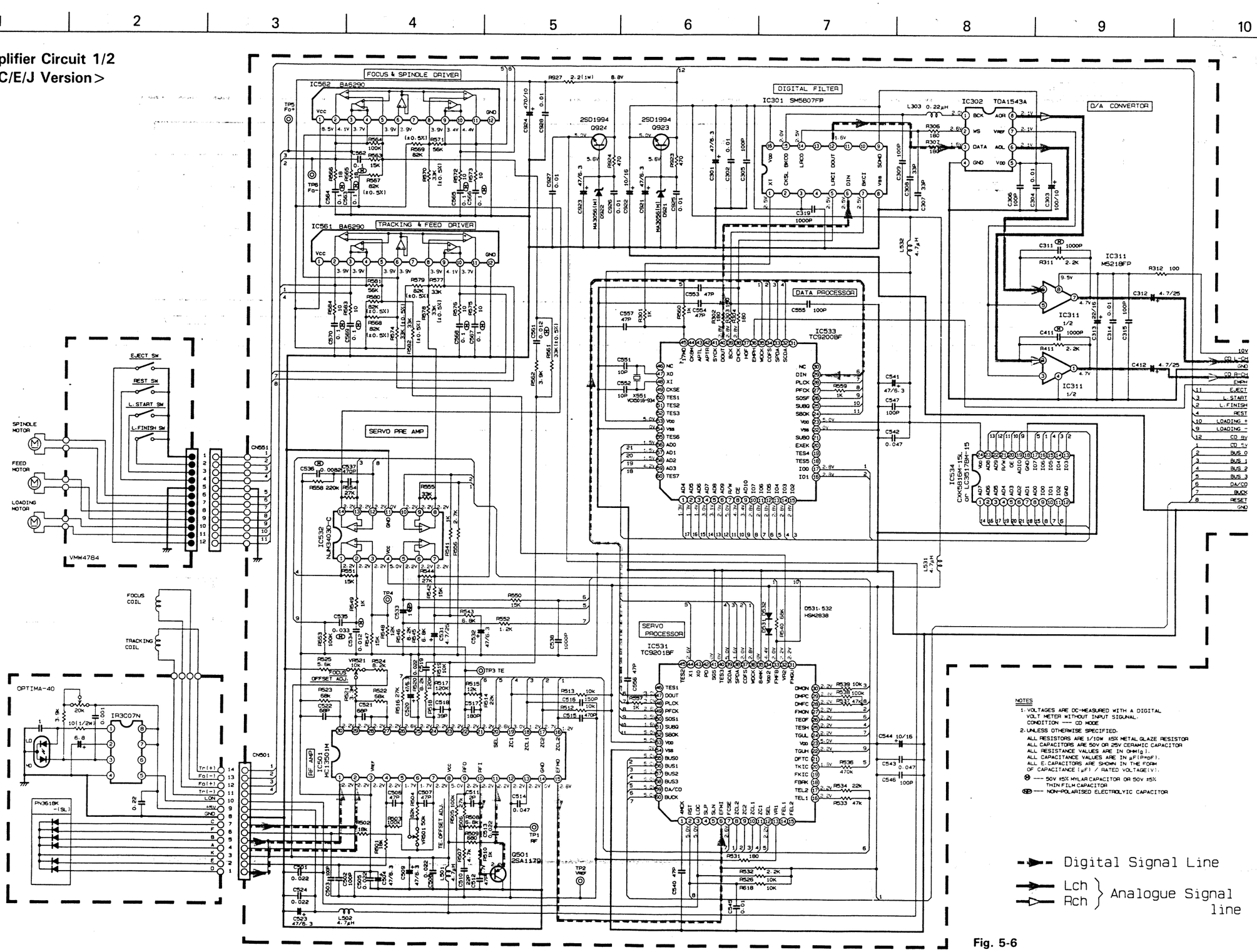
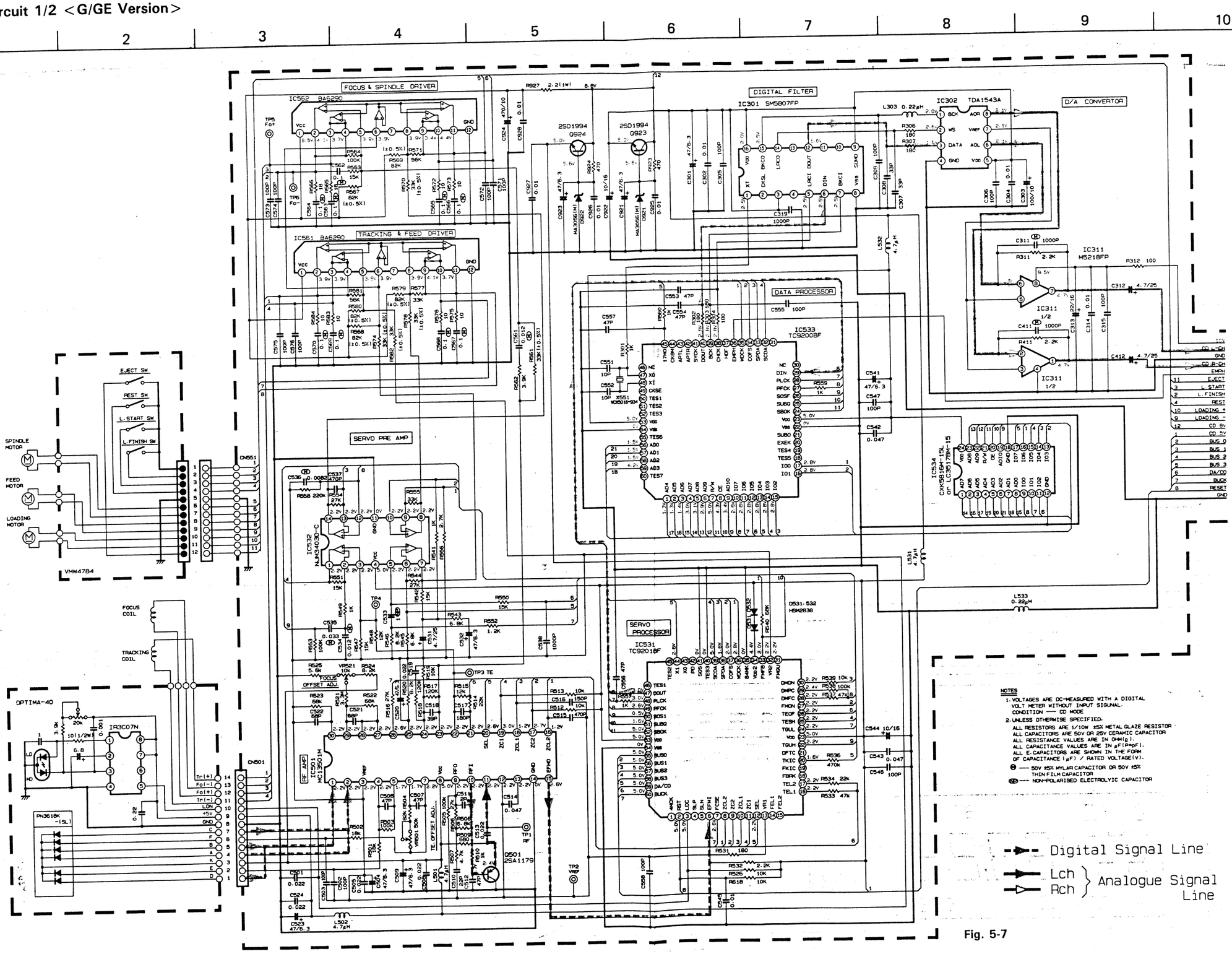


Fig. 5-6

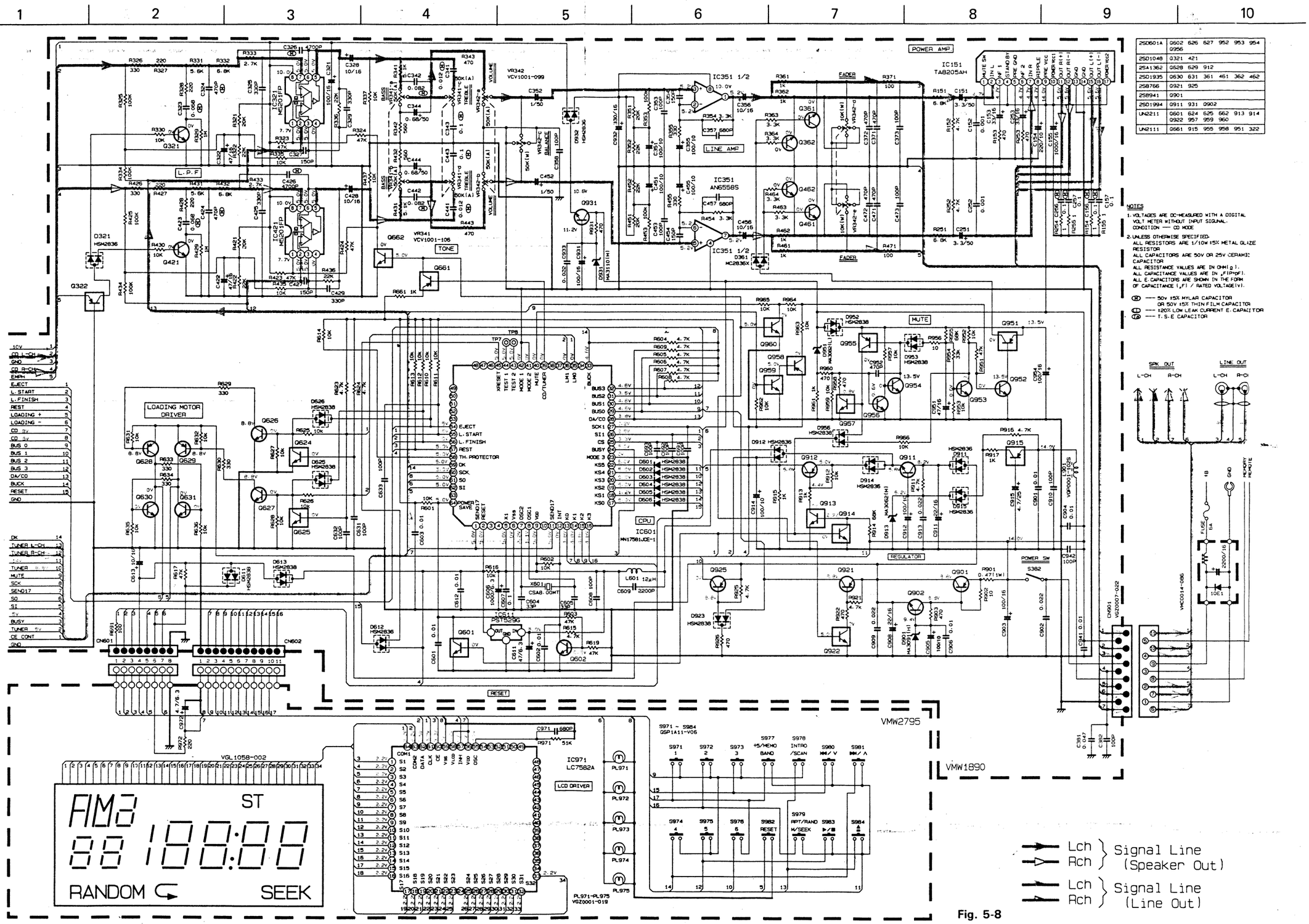
■ Amplifier Circuit 1/2 <G/GE Version>



NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGUNAL.
CONDITION — CD MODE
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR
ALL RESISTANCE VALUES ARE IN Ω=Ω(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) / RATED VOLTAGE(V).
— 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
— NON-POLARISED ELECTROLYIC CAPACITOR

Fig. 5-7

■ Amplifier Circuit 2/2 <C/J Version>



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2SD1048	0321 421
2SA1362	0628 629 912
2SD1935	0630 631 361 461 362 462
2SB766	0921 925
2SB941	0901
2SD1994	0911 931 0902
UN2211	0601 624 625 662 913 914 0922 957 959 960
UN2111	0661 915 955 958 951 322

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGUNAL.
CONDITION — CD MODE
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) / RATED VOLTAGE(V).

Ⓜ — 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
Ⓛ — ±20% LOW LEAK CURRENT E. CAPACITOR
Ⓣ — T.S.E CAPACITOR

Fig. 5-8

■ Amplifier Circuit 2/2 <B/E Version>

2SD601A	Q602 626 627 952 953 954 Q956
2SD1048	Q321 421
2SA1362	Q628 629 912
2SD1935	Q630 631 361 461 362 462
2SB766	Q921 925
2SB941	Q901
2SD1994	Q911 931 0902
UN2211	Q601 624 625 662 913 914 Q922 957 959 960
UN2111	Q661 915 955 958 951 322

NOTES

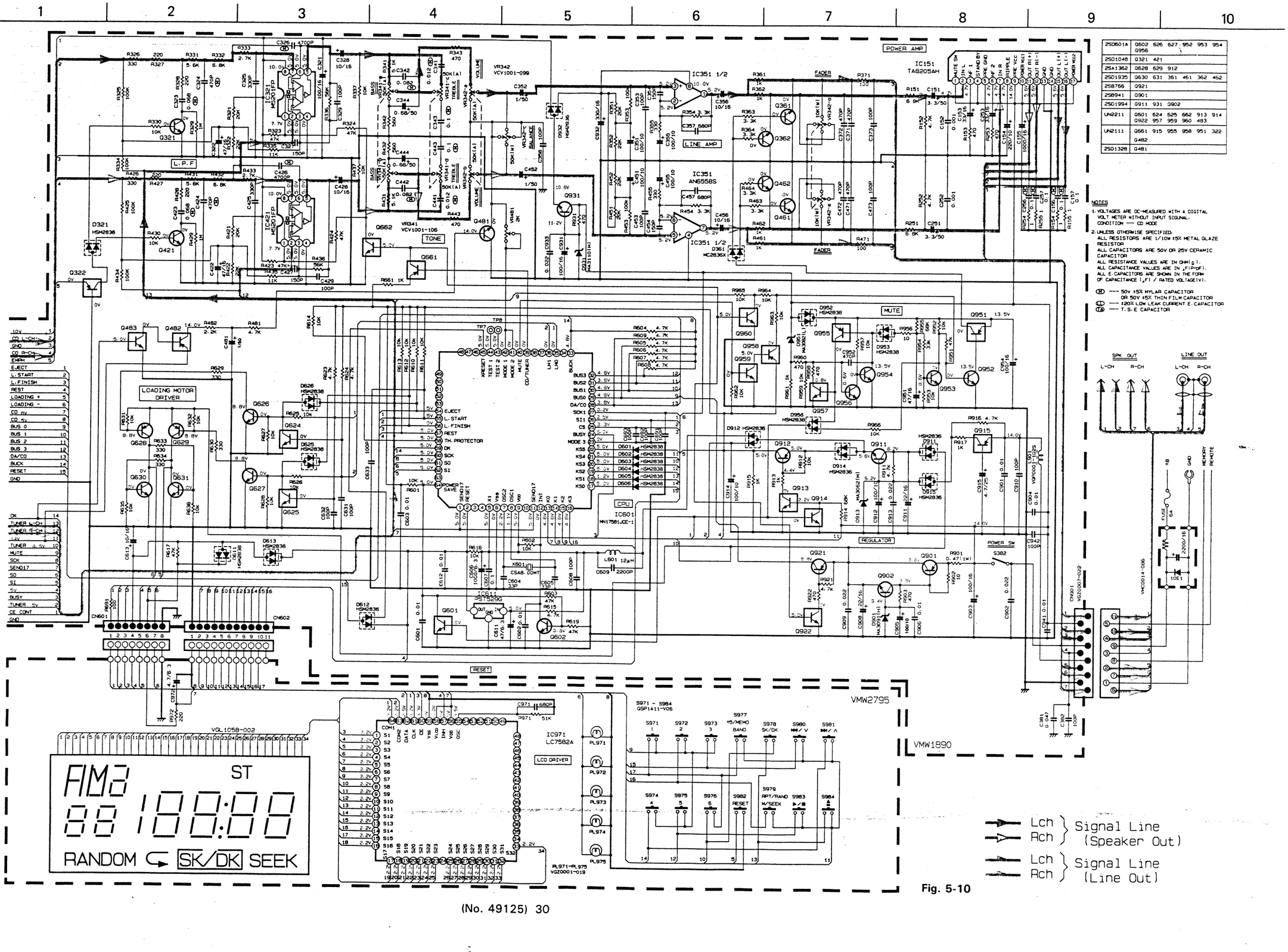
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGUNAL. CONDITION --- CD MODE
2. UNLESS OTHERWISE SPECIFIED. ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω), ALL CAPACITANCE VALUES ARE IN μF(PmpF) ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) / RATED VOLTAGE(V).

(B) --- 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
(E) --- ±20% LOW LEAK CURRENT E. CAPACITOR
(GE) --- T.S.E CAPACITOR

Lch / Rch } Signal Line (Speaker Out)
Lch / Rch } Signal Line (Line Out)

Fig. 5-9

■ Amplifier Circuit 2/2 <G/GE Version>



2SD601A	Q602 626 627 952 953 954 0956
2SD1048	Q321 421
2SA1362	Q628 629 912
2SD1935	Q630 631 361 461 362 462
2SB756	Q921
2SB941	Q901
2SD1994	Q911 931 0902
UN2211	Q601 624 625 662 913 914 0922 957 959 960 483
UN2111	Q661 915 955 958 951 322 0482
2SD1328	Q481

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION — CD MODE
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P:pF).
ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) / RATED VOLTAGE(V).

Ⓜ — 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
Ⓛ — ±20% LOW LEAK CURRENT E. CAPACITOR
Ⓣ — T.S.E CAPACITOR

Fig. 5-10

6 Wiring Connections

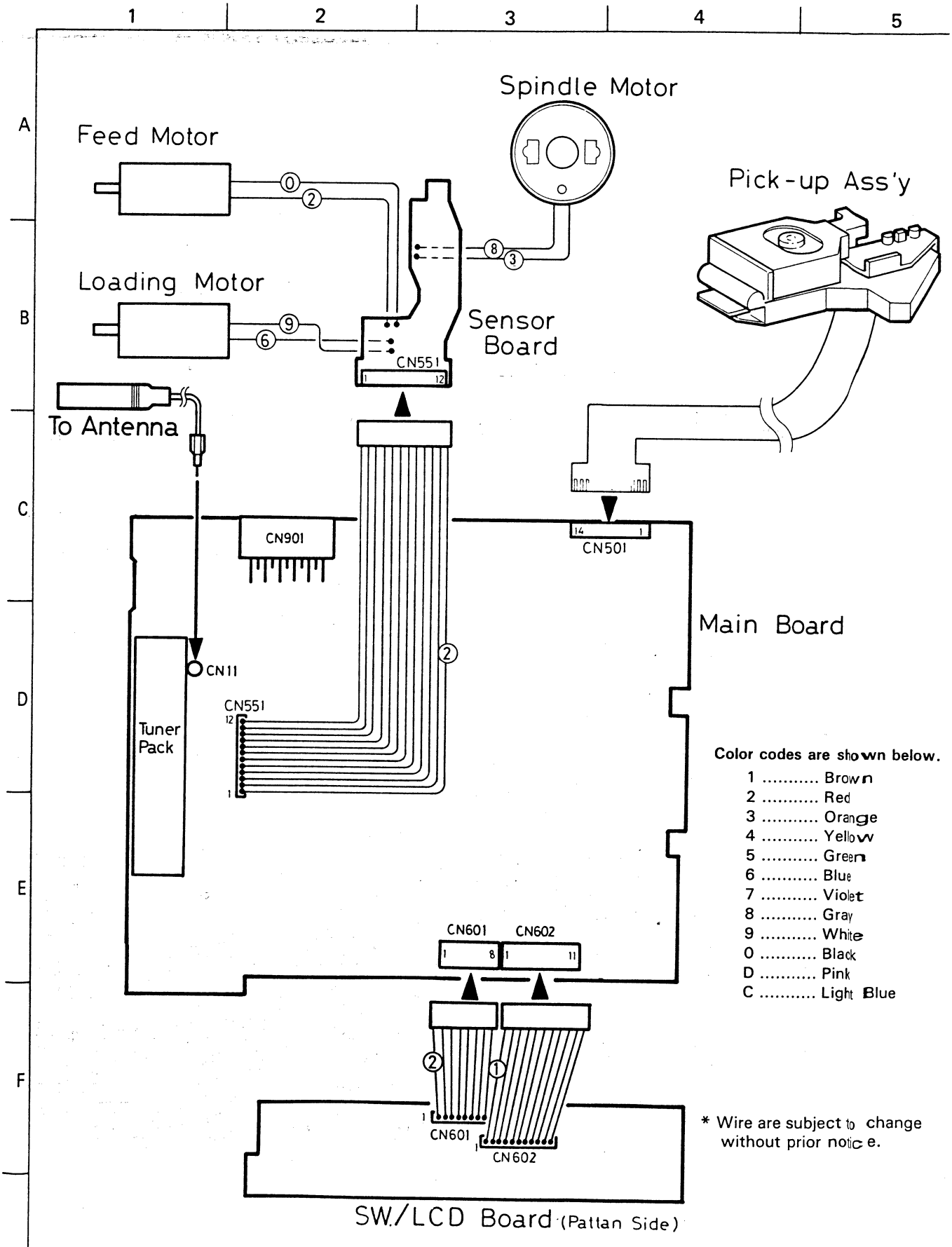


Fig. 6-1

7 Location of P.C. Board

■ Main Board C/J/B/E Version

• Top Side

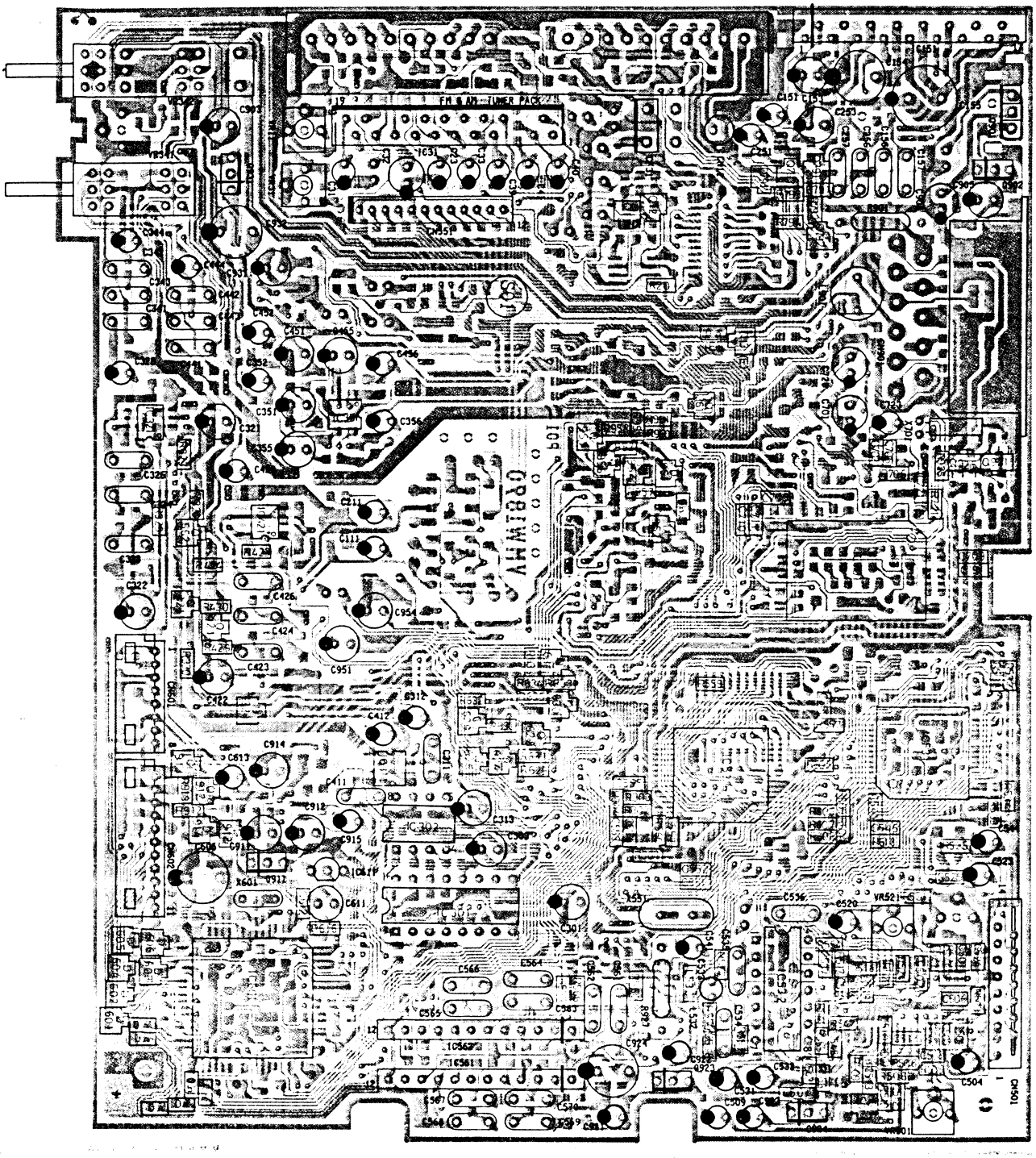


Fig. 7-1

• Bottom side

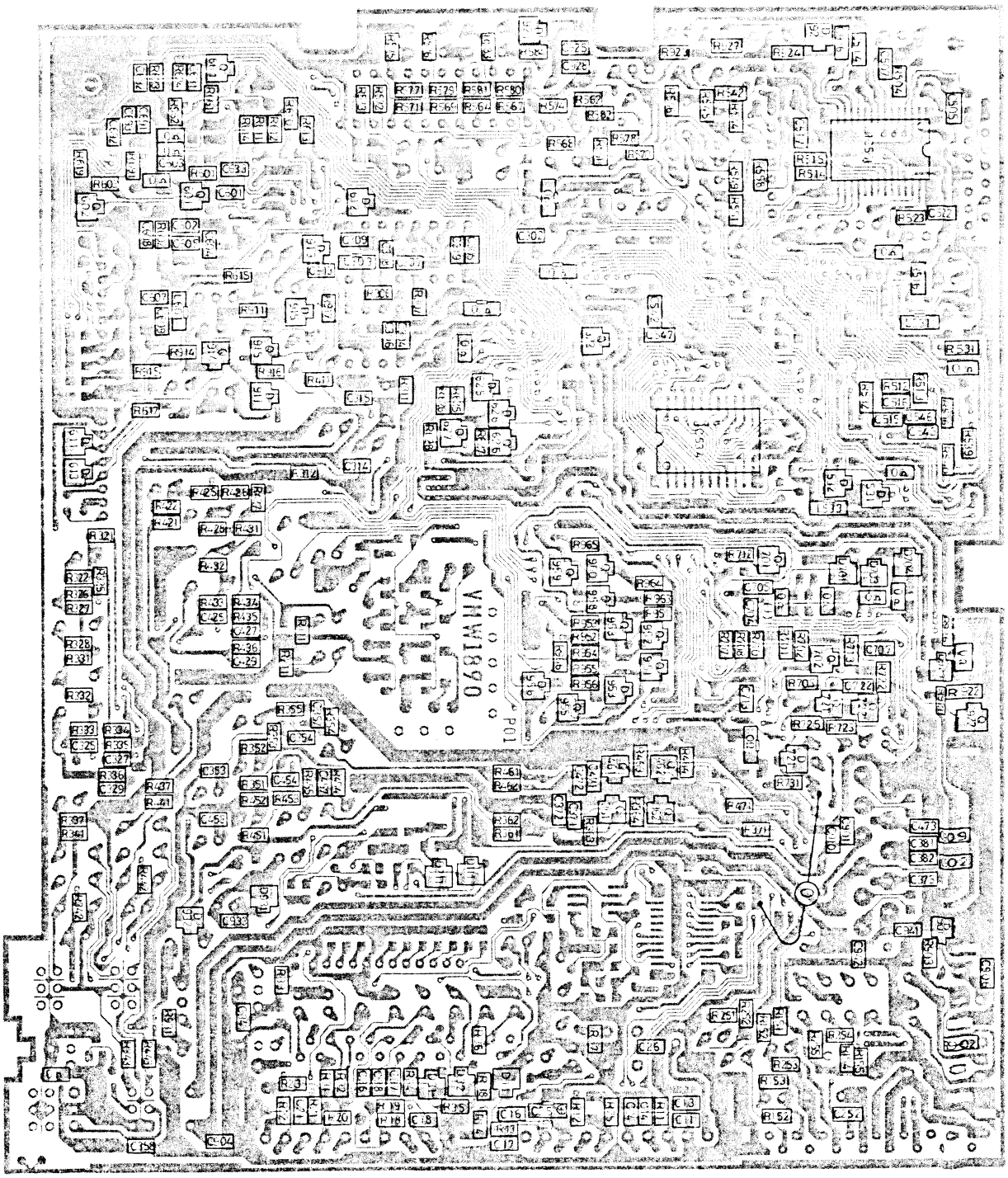


Fig. 7-2

• **Bottom side**

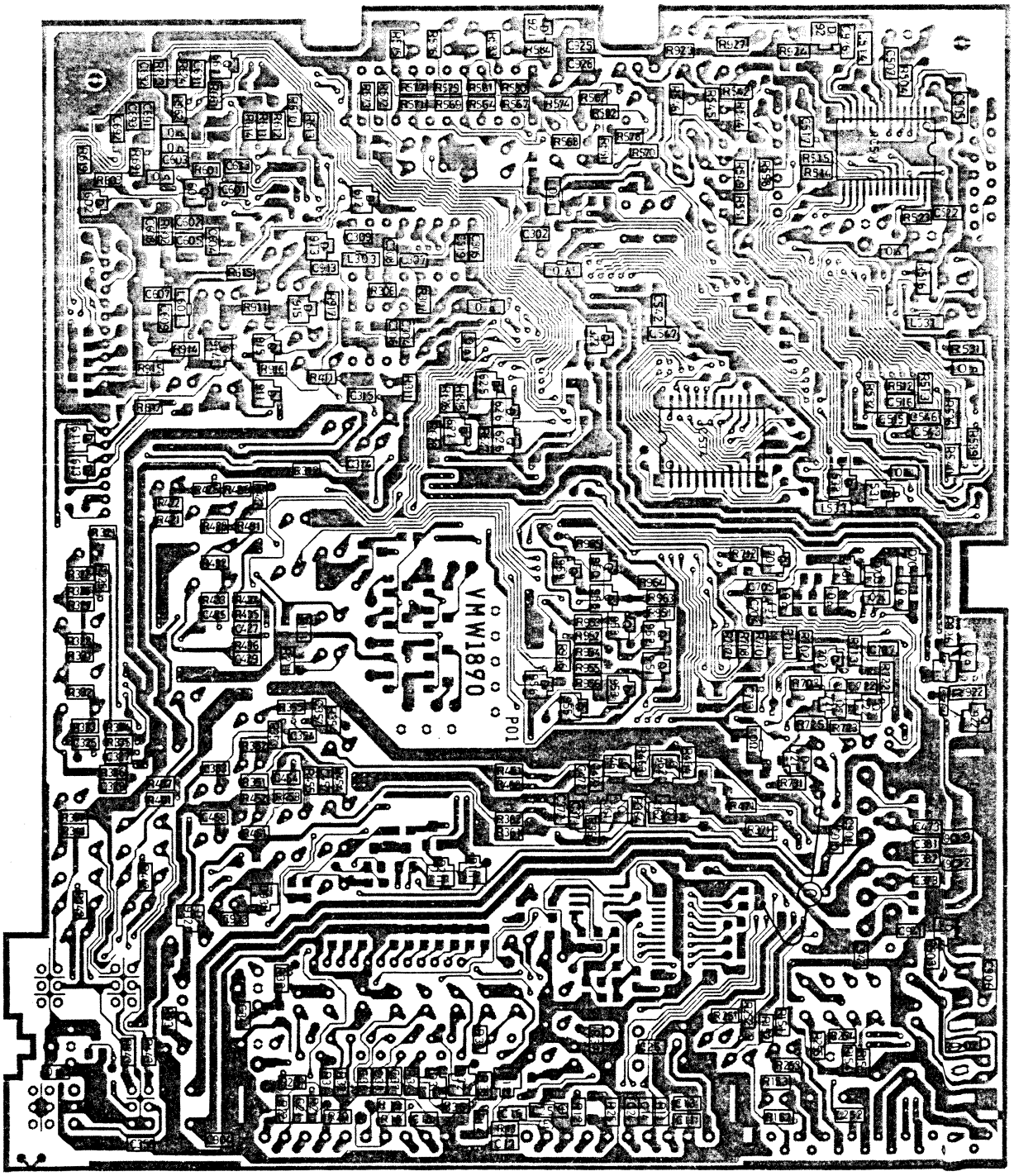


Fig. 7-2

Main Board C/J/B/E Version (#1001~)

- Top side

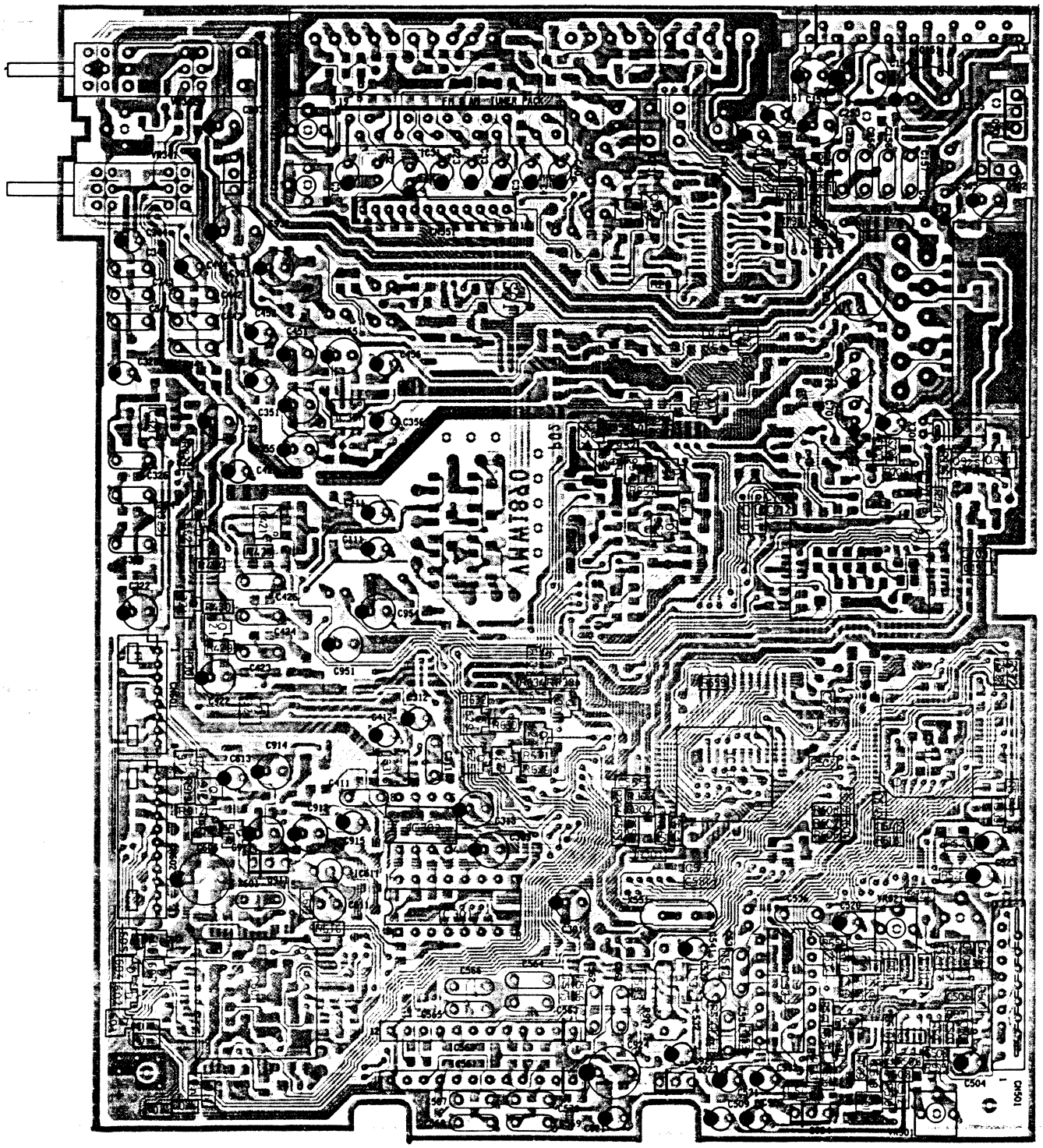


Fig. 7-3

• Bottom side (# 1001 ~)

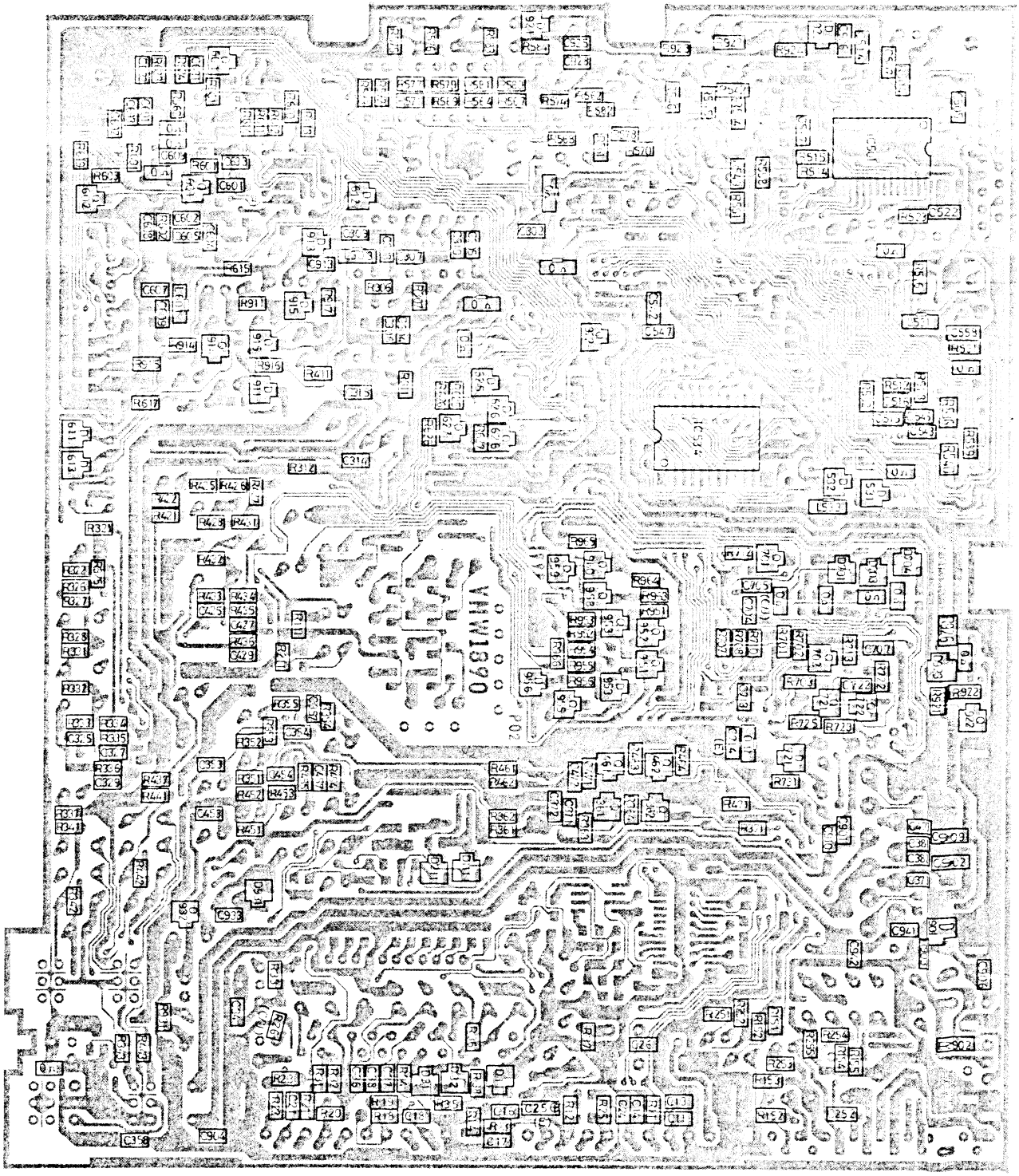


Fig. 7-4

• **Bottom side (# 1001 ~)**

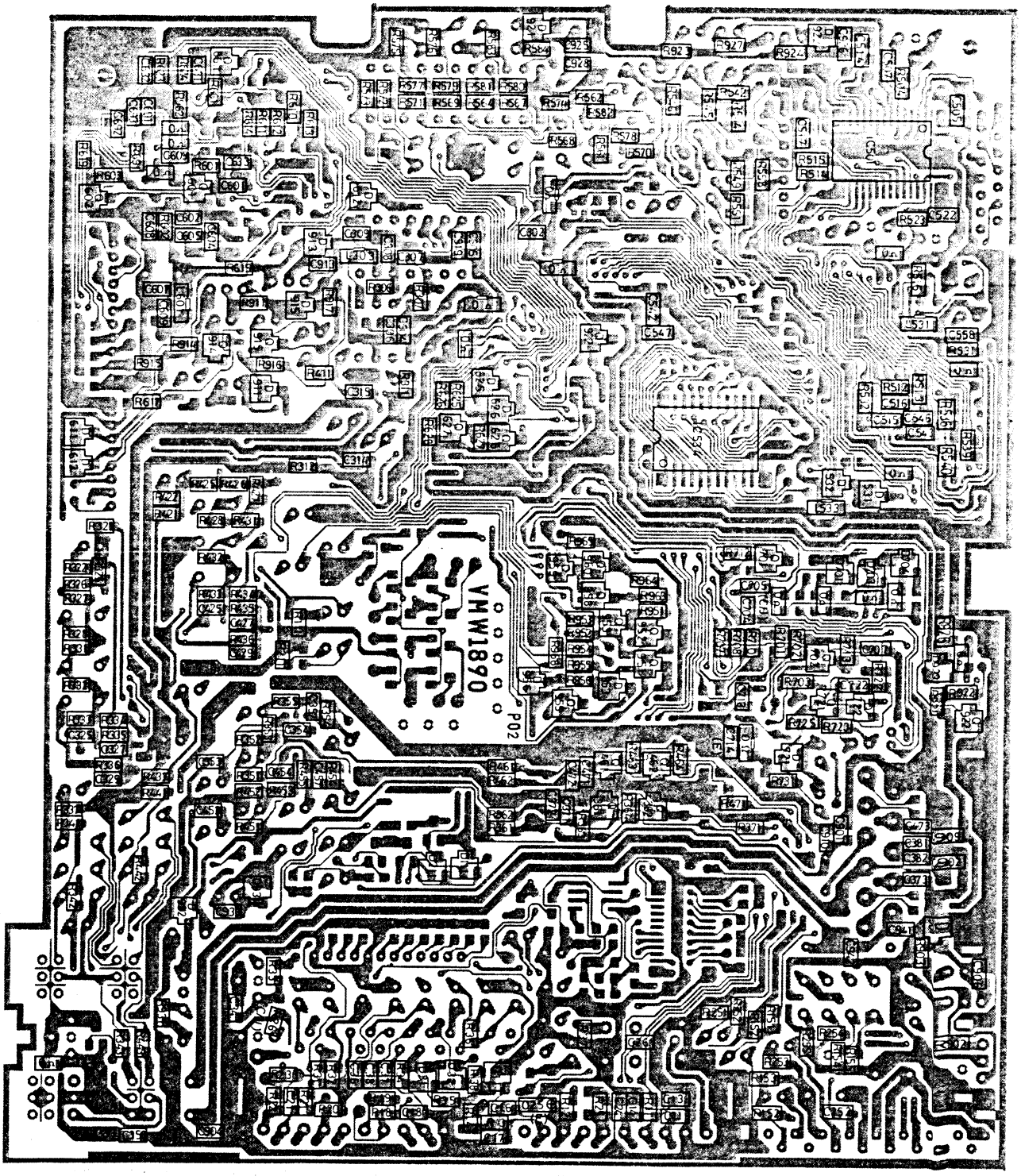


Fig. 7-4

• Bottom side

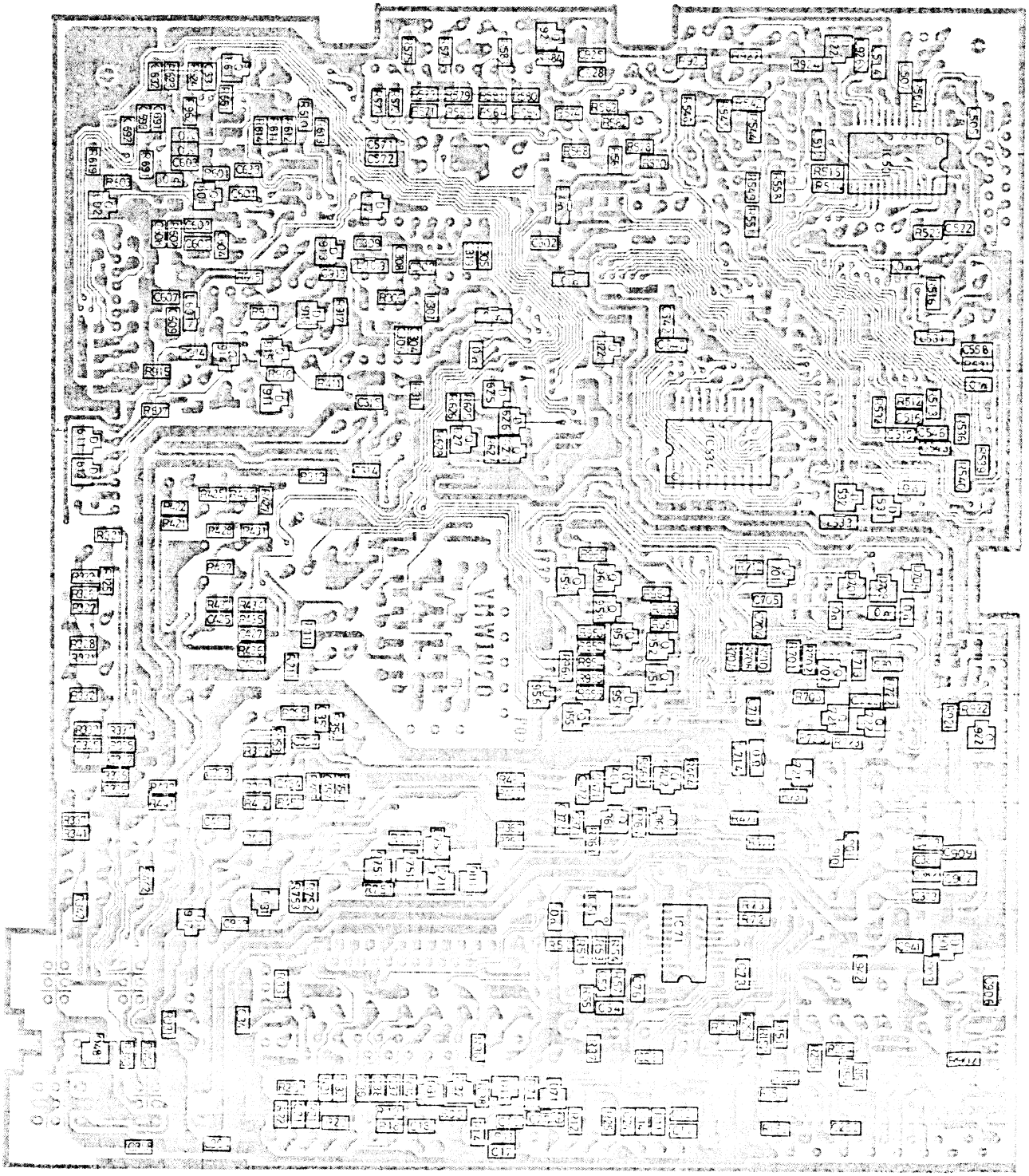


Fig. 7-6

■ Main Board G/GE Version

• Top Side

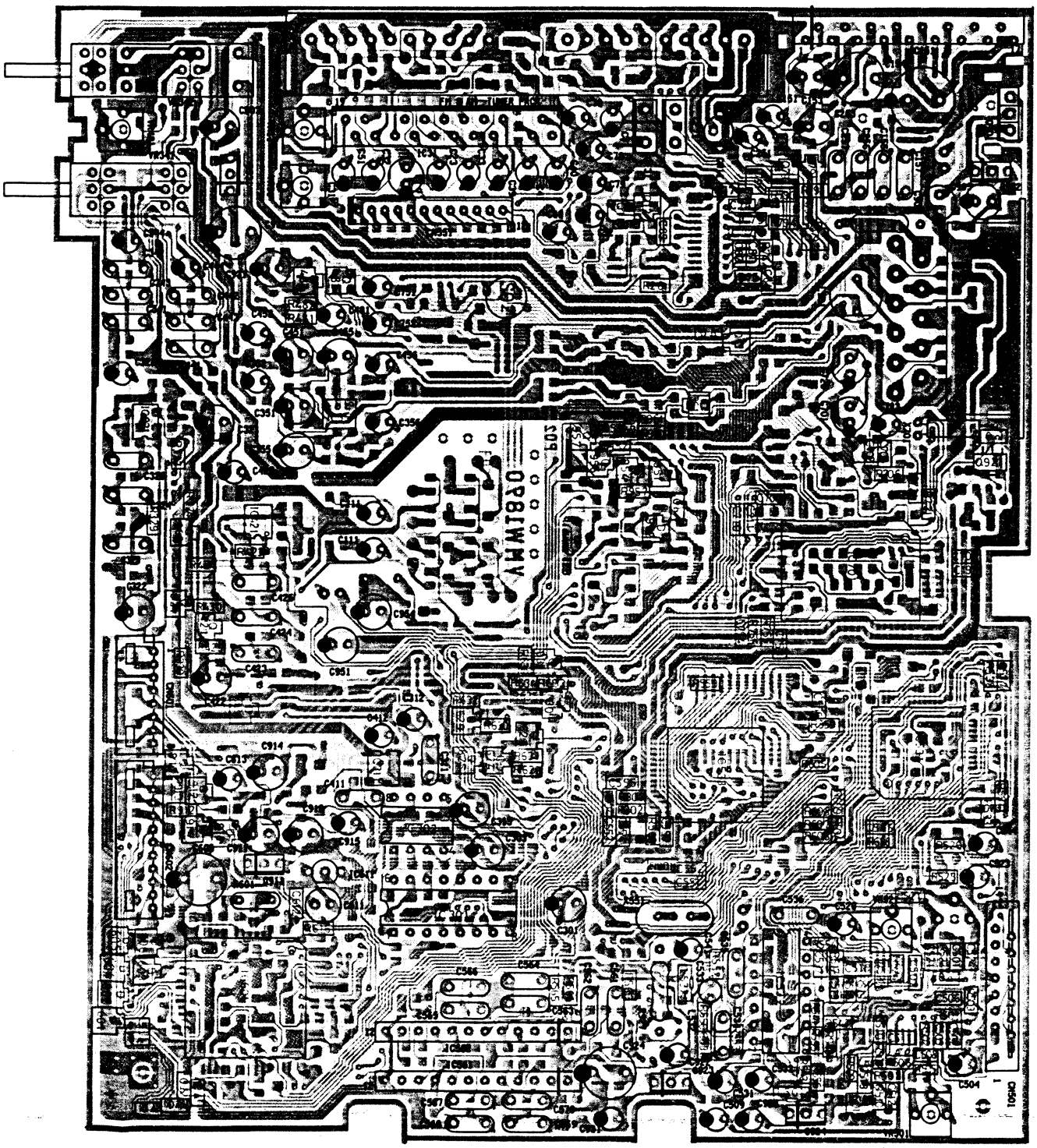


Fig. 7-5

• Bottom side

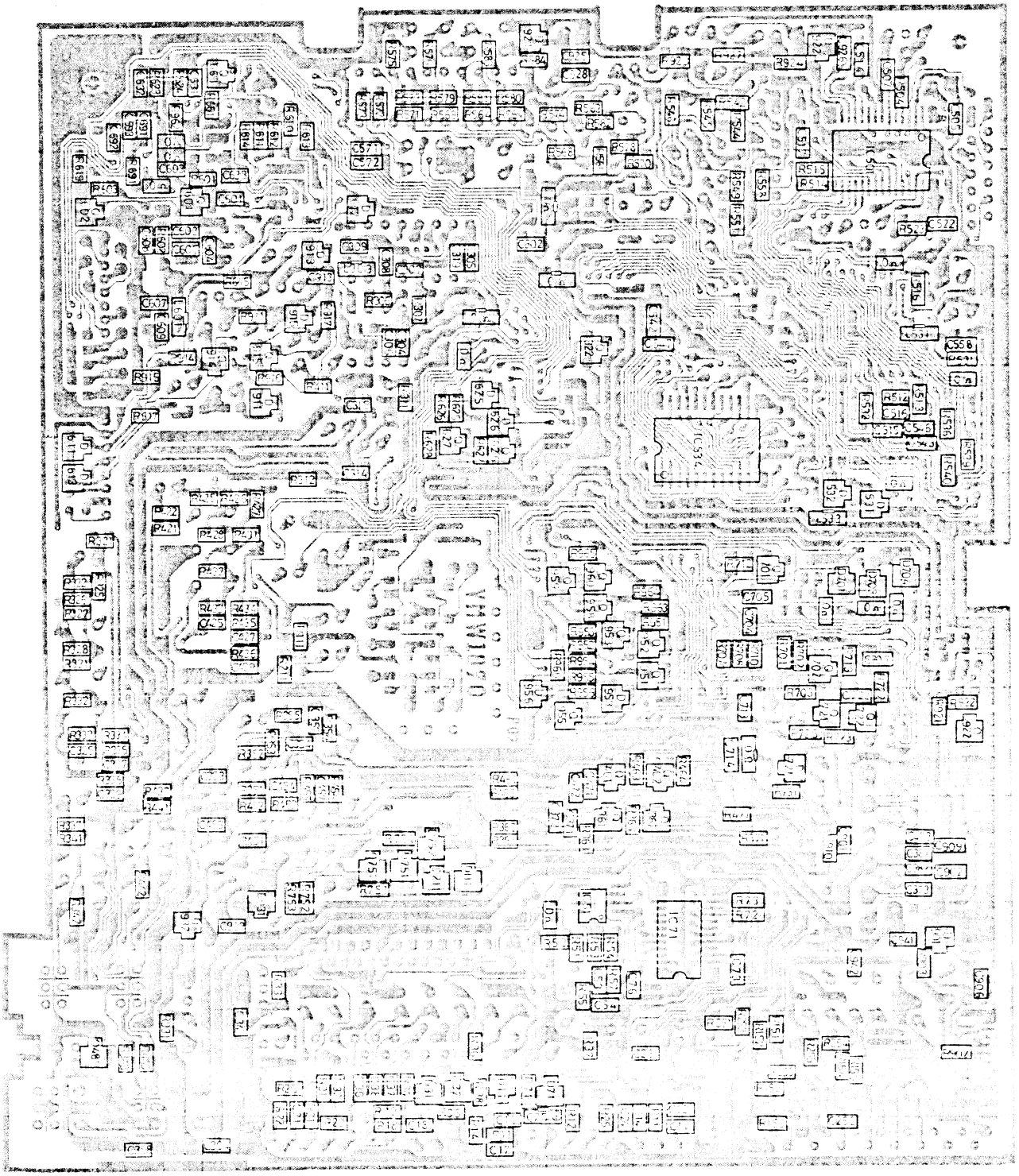


Fig. 7-6

• **Bottom side**

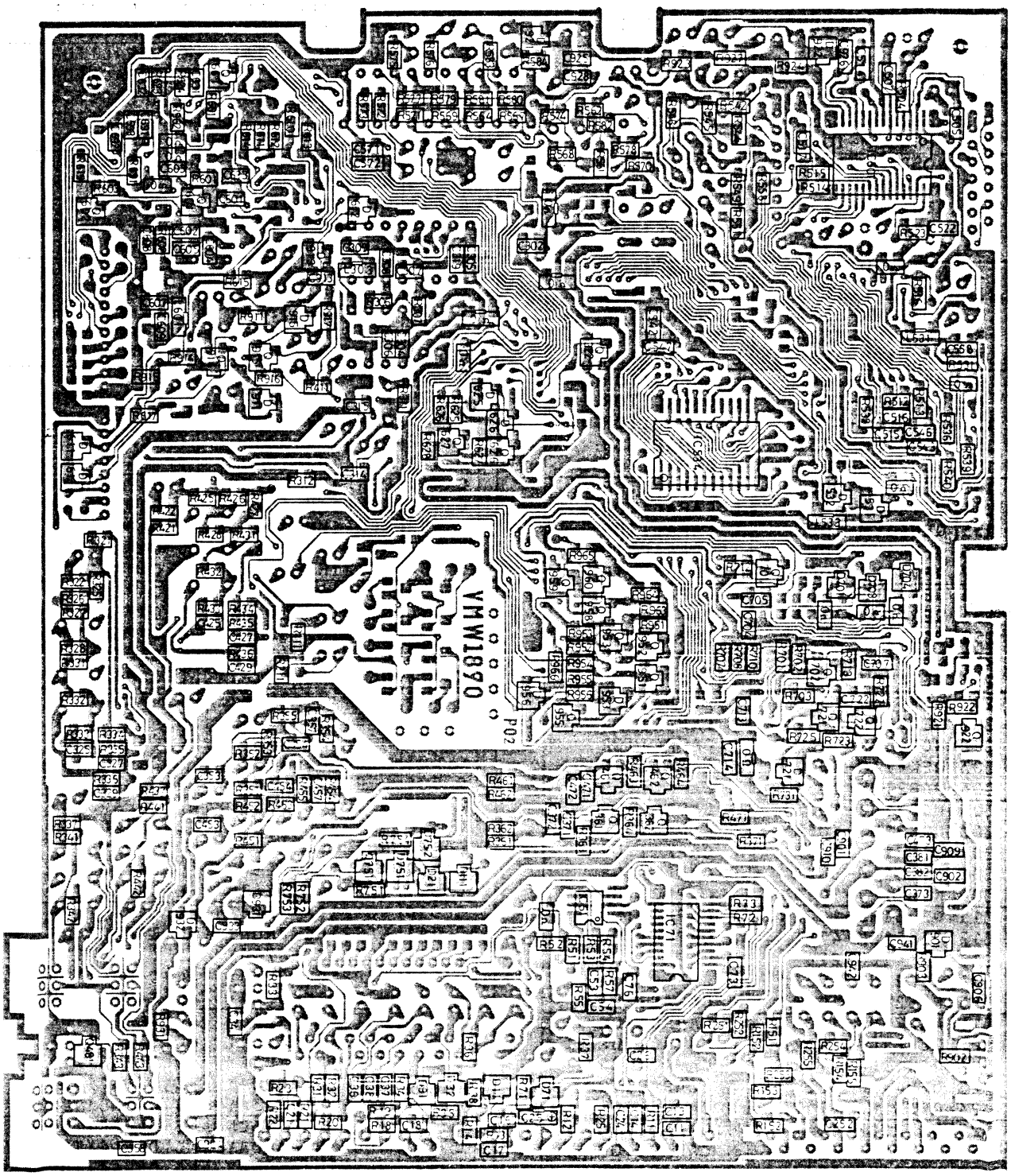


Fig. 7-6

• Main Board Parts List

⚠	REF.	PARTS NO.	PARTS NAME
	C 11	NCB21EK-223AY	C CAPACITOR
	C 13	NCB21EK-473AY	C CAPACITOR
	C 14	NCB21EK-223AY	C CAPACITOR
	C 16	NCB21EK-223AY	C CAPACITOR
	C 17	NCB21EK-223AY	C CAPACITOR
	C 18	NCB21HK-103AY	C CAPACITOR
	C 19	NCB21HK-103AY	C CAPACITOR
	C 20	NCB21HK-103AY	C CAPACITOR
	C 21	NCB21EK-473AY	C CAPACITOR
	C 23	QER41HM-105	E CAPACITOR
	C 24	NCS21HJ-101AY	C CAPACITOR
	C 26	NCT21CH-330AY	C CAPACITOR
	C 31	QER41EM-475	E CAPACITOR
	C 32	QER41CM-226	E CAPACITOR
	C 33	QER41EM-475	E CAPACITOR
	C 34	NCT21CH-471AY	C CAPACITOR
	C 36	NCB21HK-103AY	C CAPACITOR
	C 37	NCB21HK-332AY	C CAPACITOR
	C 38	NCB21HK-332AY	C CAPACITOR
	C 39	QER41EM-475	E CAPACITOR
	C 40	QER41HM-224	E CAPACITOR
	C 41	QER41HM-105	E CAPACITOR
	C 111	QER41EM-475	E CAPACITOR
	C 151	QERF1HM-335ZN	E CAPACITOR
	C 152	NCB21HK-102AY	C CAPACITOR
	C 153	QER41AM-336	E CAPACITOR
	C 154	QETC1AM-227ZM	E CAPACITOR
	C 155	QEU41CM-108M	E CAPACITOR
	C 156	QFV41HJ-104	TF CAPACITOR
	C 157	QFV41HJ-104	TF CAPACITOR
	C 211	QER41EM-475	E CAPACITOR
	C 251	QERF1HM-335ZN	E CAPACITOR
	C 252	NCB21HK-102AY	C CAPACITOR
	C 253	QER41AM-336	E CAPACITOR
	C 256	QFV41HJ-104	TF CAPACITOR
	C 257	QFV41HJ-104	TF CAPACITOR
	C 301	QERFOJM-476ZN	E CAPACITOR
	C 302	NCB21HK-103AY	C CAPACITOR
	C 303	QEKF1AM-107ZN	E CAPACITOR
	C 304	NCB21HK-103AY	C CAPACITOR
	C 305	NCS21HJ-101AY	C CAPACITOR
	C 306	NCS21HJ-101AY	C CAPACITOR
	C 307	NCT21CH-330AY	C CAPACITOR
	C 308	NCT21CH-330AY	C CAPACITOR
	C 309	NCS21HJ-101AY	C CAPACITOR
	C 311	QFJ31HJ-102ZN	M CAPACITOR
	C 312	QEK41EM-475	E CAPACITOR
	C 313	QEK41CM-226	E CAPACITOR
	C 314	NCB21HK-103AY	C CAPACITOR
	C 315	NCS21HJ-101AY	C CAPACITOR
	C 319	NCB21HK-102AY	C CAPACITOR
	C 321	QEKF1CM-107ZN	E CAPACITOR
	C 322	QEK41CM-476	E CAPACITOR
	C 323	QFV41HJ-683	TF CAPACITOR
	C 324	QFJ31HJ-471ZN	M CAPACITOR
	C 325	NCT21CH-331AY	C.CAPACITOR
	C 326	QFJ31HJ-472ZN	M CAPACITOR
	C 327	NCS21HJ-151AY	C CAPACITOR
	C 328	QEK41CM-106	E CAPACITOR
	C 329	NCT21CH-331AY	C.CAPACITOR
	C 341	QFV41HJ-123	TF CAPACITOR
	C 342	QFV41HJ-823	TF CAPACITOR
	C 343	QFV41HJ-104	TF CAPACITOR
	C 344	QERF1HM-684ZN	E CAPACITOR
	C 351	QEKF1AM-107ZN	E CAPACITOR

⚠	REF.	PARTS NO.	PARTS NAME
	C 352	QEK41HM-105	E CAPACITOR
	C 353	NCS21HJ-101AY	C CAPACITOR
	C 354	NCS21HJ-151AY	C CAPACITOR
	C 355	QEKF1AM-107ZN	E CAPACITOR
	C 356	QER41CM-106	E CAPACITOR
	C 357	NCS21HJ-681AY	C CAPACITOR
	C 358	NCS21HJ-101AY	C CAPACITOR
	C 371	NCT21CH-471AY	C CAPACITOR
	C 372	NCT21CH-471AY	C CAPACITOR
	C 373	NCS21HJ-101AY	C CAPACITOR
	C 381	NCB21EK-473AY	C CAPACITOR
	C 382	NCS21HJ-101AY	C CAPACITOR
	C 411	QFJ31HJ-102ZN	M CAPACITOR
	C 412	QEK41EM-475	E CAPACITOR
	C 422	QEK41CM-476	E CAPACITOR
	C 423	QFV41HJ-683	TF CAPACITOR
	C 424	QFJ31HJ-471ZN	M CAPACITOR
	C 425	NCT21CH-331AY	C.CAPACITOR
	C 426	QFJ31HJ-472ZN	M CAPACITOR
	C 427	NCS21HJ-151AY	C CAPACITOR
	C 428	QEK41CM-106	E CAPACITOR
	C 429	NCT21CH-331AY	C.CAPACITOR
	C 441	QFV41HJ-123	TF CAPACITOR
	C 442	QFV41HJ-823	TF CAPACITOR
	C 443	QFV41HJ-104	TF CAPACITOR
	C 444	QERF1HM-684ZN	E CAPACITOR
	C 451	QEKF1AM-107ZN	E CAPACITOR
	C 452	QEK41HM-105	E CAPACITOR
	C 453	NCS21HJ-101AY	C CAPACITOR
	C 454	NCS21HJ-151AY	C CAPACITOR
	C 455	QEKF1AM-107ZN	E CAPACITOR
	C 456	QER41CM-106	E CAPACITOR
	C 457	NCS21HJ-681AY	C CAPACITOR
	C 471	NCT21CH-471AY	C CAPACITOR
	C 472	NCT21CH-471AY	C CAPACITOR
	C 473	NCS21HJ-101AY	C CAPACITOR
	C 501	NCB21EK-223AY	C CAPACITOR
	C 502	NCS21HJ-101AY	C CAPACITOR
	C 503	NCS21HJ-101AY	C CAPACITOR
	C 504	QERFOJM-476ZN	E CAPACITOR
	C 505	NCB21EK-223AY	C CAPACITOR
	C 506	NCT21CH-470AY	C CAPACITOR
	C 507	NCT21CH-470AY	C CAPACITOR
	C 508	NCB21EK-223AY	C CAPACITOR
	C 509	QERFOJM-476ZN	E CAPACITOR
	C 510	NCT21CH-220AY	C CAPACITOR
	C 511	NCS21HC-2R0AY	C CAPACITOR
	C 512	NCT21CH-470AY	C CAPACITOR
	C 513	NCB21EK-223AY	C CAPACITOR
	C 514	NCB21EK-473AY	C CAPACITOR
	C 515	NCT21CH-471AY	C CAPACITOR
	C 516	NCS21HJ-151AY	C CAPACITOR
	C 517	NCS21HJ-181AY	C CAPACITOR
	C 518	NCT21CH-390AY	C CAPACITOR
	C 519	NCB21EK-223AY	C CAPACITOR
	C 520	QERFOJM-476ZN	E CAPACITOR
	C 521	NCS21HJ-680AY	C CAPACITOR
	C 522	NCS21HJ-680AY	C CAPACITOR
	C 523	QERFOJM-476ZN	E CAPACITOR
	C 524	NCB21EK-223AY	C CAPACITOR
	C 531	QER41EM-475	E CAPACITOR
	C 532	QERFOJM-476ZN	E CAPACITOR
	C 533	QEPJ1HM-105ZM	NP CAPACITOR
	C 534	QFV41HJ-123	TF CAPACITOR
	C 535	QFV41HJ-333	TF CAPACITOR

⚠	REF.	PARTS NO.	PARTS NAME
	C 536	QFJ31HJ-822ZN	M CAPACITOR
	C 537	NCS21HJ-471AY	C CAPACITOR
	C 538	NCB21HK-102AY	C CAPACITOR
	C 540	NCT21CH-470AY	C CAPACITOR
	C 541	QERFOJM-476ZN	E CAPACITOR
	C 542	NCB21EK-473AY	C CAPACITOR
	C 543	NCB21EK-473AY	C CAPACITOR
	C 544	QER41CM-106	E CAPACITOR
	C 545	NCB21HK-103AY	C CAPACITOR
	C 546	NCS21HJ-101AY	C CAPACITOR
	C 547	NCS21HJ-101AY	C CAPACITOR
	C 551	NCT21CH-100AY	C CAPACITOR
	C 552	NCT21CH-100AY	C CAPACITOR
	C 553	NCT21CH-470AY	C CAPACITOR
	C 554	NCT21CH-470AY	C CAPACITOR
	C 555	NCS21HJ-101AY	C CAPACITOR
	C 556	NCT21CH-470AY	C CAPACITOR
	C 557	NCT21CH-470AY	C CAPACITOR
	C 561	QFV41HJ-123	TF CAPACITOR
	C 562	QFV41HJ-104	TF CAPACITOR
	C 563	QFV41HJ-104	TF CAPACITOR
	C 564	QFV41HJ-104	TF CAPACITOR
	C 565	QFV41HJ-104	TF CAPACITOR
	C 566	QFV41HJ-104	TF CAPACITOR
	C 567	QFV41HJ-104	TF CAPACITOR
	C 568	QFV41HJ-104	TF CAPACITOR
	C 569	QFV41HJ-104	TF CAPACITOR
	C 570	QFV41HJ-104	TF CAPACITOR
	C 601	NCB21HK-103AY	C CAPACITOR
	C 602	NCB21HK-103AY	C CAPACITOR
	C 603	NCB21HK-103AY	C CAPACITOR
	C 604	NCT21CH-330AY	C CAPACITOR
	C 605	NCT21CH-330AY	C CAPACITOR
	C 606	QETBOJM-108N	E CAPACITOR
	C 607	NCF21EZ-104AY	C CAPACITOR
	C 608	NCS21HJ-101AY	C CAPACITOR
	C 609	NCB21HK-222AY	C CAPACITOR
	C 611	QERFOJM-476ZN	E CAPACITOR
	C 612	NCB21HK-103AY	C CAPACITOR
	C 613	QEK41CM-106	E CAPACITOR
	C 631	NCS21HJ-101AY	C CAPACITOR
	C 632	NCS21HJ-101AY	C CAPACITOR
	C 633	NCS21HJ-101AY	C CAPACITOR
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	C 692	NCS21HJ-101AY	C CAPACITOR
	C 693	NCS21HJ-101AY	C CAPACITOR
	C 701	QERFOJM-107ZN	E CAPACITOR
	C 702	NCB21HK-103AY	C CAPACITOR
	C 703	NCB21HK-102AY	C CAPACITOR
	C 704	NCT21CH-330AY	C CAPACITOR
	C 705	NCT21CH-220AY	C CAPACITOR
	C 706	NCS21HJ-101AY	C CAPACITOR
	C 707	NCB21HK-103AY	C CAPACITOR
	C 709	NCS21HJ-101AY	C CAPACITOR
	C 710	NCS21HJ-101AY	C CAPACITOR
	C 711	NCS21HJ-101AY	C CAPACITOR
	C 712	NCB21HK-332AY	C CAPACITOR
	C 713	NCF21EZ-104AY	C CAPACITOR
	C 722	NCB21HK-102AY	C CAPACITOR
	C 723	QER41HM-225	E CAPACITOR
	C 728	QER41CM-476	E CAPACITOR
	C 901	NCB21HK-103AY	C CAPACITOR
	C 902	NCB21EK-223AY	C CAPACITOR
	C 903	QEKF1CM-107ZN	E CAPACITOR
	C 904	NCB21HK-103AY	C CAPACITOR
	C 905	QEK41CM-226	E CAPACITOR
	C 906	NCB21HK-103AY	C CAPACITOR
	C 908	QEK41CM-226	E CAPACITOR
	C 909	NCB21EK-223AY	C CAPACITOR
	C 910	NCS21HJ-101AY	C CAPACITOR

⚠	REF.	PARTS NO.	PARTS NAME
	C 911	QEK41CM-226	E CAPACITOR
	C 912	QEKF1AM-107ZN	E CAPACITOR
	C 913	NCB21EK-223AY	C CAPACITOR
	C 914	QEKF1AM-107ZN	E CAPACITOR
	C 915	QEK41EM-475	E CAPACITOR
	C 921	QERFOJM-476ZN	E CAPACITOR
	C 922	QER41CM-106	E CAPACITOR
	C 923	QERFOJM-476ZN	E CAPACITOR
	C 924	QETC1AM-477ZN	E CAPACITOR
	C 925	NCB21HK-103AY	C CAPACITOR
	C 926	NCB21HK-103AY	C CAPACITOR
	C 927	NCB21HK-103AY	C CAPACITOR
	C 928	NCB21HK-103AY	C CAPACITOR
	C 931	QEKF1CM-107ZN	E CAPACITOR
	C 932	QETC1CM-337ZN	E CAPACITOR
	C 933	NCB21EK-223AY	C CAPACITOR
	C 941	NCB21HK-103AY	C CAPACITOR
	C 942	NCS21HJ-101AY	C CAPACITOR
	C 951	QEK41CM-476	E CAPACITOR
	C 952	NCT21CH-471AY	C CAPACITOR
	C 954	QEKF1CM-107ZN	E CAPACITOR
	CF 31	CSB456F11	CELA LOCK
	CN 11	VMZ0075-001V	COAXIAL CONNECT
	CN501	EMV7901-014	FPC CONNECTOR
	CN601	VMC0064-008	CONNECTOR
	CN602	VMC0064-011	CONNECTOR
	CN901	VGZ0007-022	FEED THRU CONN
	D 11	MA3056(M)	ZENER DIODE
	D 31	MA153	DIODE
	D 32	MA153	DIODE
	D 111	HSM2838C	DIODE
	D 211	HSM2838C	DIODE
	D 321	HSM2836C	DIODE
	D 361	HSM2836C	DIODE
	D 531	HSM2838C	DIODE
	D 532	HSM2838C	DIODE
	D 601	HSM2838C	DIODE
	D 602	HSM2838C	DIODE
	D 603	HSM2838C	DIODE
	D 604	HSM2838C	DIODE
	D 605	HSM2838C	DIODE
	D 606	HSM2838C	DIODE
	D 611	HSM2838C	DIODE
	D 612	HSM2836C	DIODE
	D 613	HSM2838C	DIODE
	D 625	HSM2838C	DIODE
	D 626	HSM2838C	DIODE
	D 701	HSM2836C	DIODE
	D 703	HSM2836C	DIODE
	D 704	HSM2836C	DIODE
	D 721	MA3091(H)	Z DIODE
	D 791	HSM2838C	DIODE
	D 901	MA3091(H)	Z DIODE
	D 911	HSM2836C	DIODE
	D 912	HSM2836C	DIODE
	D 913	MA3062(M)	ZENER DIODE
	D 914	HSM2836C	DIODE
	D 915	HSM2836C	DIODE
	D 921	MA3056(M)	ZENER DIODE
	D 922	MA3056(M)	ZENER DIODE
	D 923	HSM2838C	DIODE
	D 931	MA3110(M)	Z DIODE
	D 932	HSM2836C	DIODE
	D 951	MA3082L	ZENER DIODE
	D 952	HSM2838C	DIODE
	D 953	HSM2838C	DIODE
	D 956	HSM2838C	DIODE
	IC 31	NMX4S932	H.IC
	IC151	TA8205AH	IC
	IC301	SM5807FP	IC

⚠	REF.	PARTS NO.	PARTS NAME
	IC302	TDA1543A	IC
	IC311	M5218FP	IC
	IC321	M5201FP	IC
	IC351	AN6558S	MINI FLAT IC
	IC421	M5201FP	IC
	IC501	MC13501M	IC
	IC531	TC9201BF	IC
	IC532	NJM3403D-C	IC
	IC533	TC9200BF	IC
	IC534	LC3517BM-15	16K SRAM
	IC561	BA6290	IC
	IC562	BA6290	IC
	IC601	MN17581JCE-1	IC
	IC611	PST529G	IC
	IC701	UPD1723GF-533	IC
	L 303	VQP1003-R22Y	INDUCTOR
	L 501	VQP1002-4R7Y	INDUCTOR
	L 502	VQP1002-4R7Y	INDUCTOR
	L 531	VQP1002-4R7Y	INDUCTOR
	L 532	VQP1002-4R7Y	INDUCTOR
	L 601	VQP1003-120Y	INDUCTOR
	L 901	VQP0001-102S	INDUCTOR
	Q 11	UN2211	TRANSISTOR
	Q 12	UN2211	TRANSISTOR
	Q 321	2SD1048X-6HL	TRANSISTOR
	Q 322	UN2111	TRANSISTOR
	Q 361	2SD1935(7,8)	TRANSISTOR
	Q 362	2SD1935(7,8)	TRANSISTOR
	Q 421	2SD1048X-6HL	TRANSISTOR
	Q 461	2SD1935(7,8)	TRANSISTOR
	Q 462	2SD1935(7,8)	TRANSISTOR
	Q 501	2SA1179(M6M7)HL	TRANSISTOR
	Q 601	UN2211	TRANSISTOR
	Q 602	2SD601A(R)	TRANSISTOR
	Q 624	UN2211	TRANSISTOR
	Q 625	UN2211	TRANSISTOR
	Q 626	2SD601A(R)	TRANSISTOR
	Q 627	2SD601A(R)	TRANSISTOR
	Q 628	2SA1362GR	TRANSISTOR
	Q 629	2SA1362GR	TRANSISTOR
	Q 630	2SD1935(7,8)	TRANSISTOR
	Q 631	2SD1935(7,8)	TRANSISTOR
	Q 661	UN2111	TRANSISTOR
	Q 662	UN2211	TRANSISTOR
	Q 701	UN2111	TRANSISTOR
	Q 702	UN2211	TRANSISTOR
	Q 721	2SD601A(R)	TRANSISTOR
	Q 722	2SD601A(R)	TRANSISTOR
	Q 791	2SA1362GR	TRANSISTOR
	Q 792	UN2211	TRANSISTOR
	Q 793	2SA1179M.6TB	TRANSISTOR
	Q 901	2SB941A(P,Q)	TRANSISTOR
	Q 902	2SD1994(R,S)	TRANRISTOR
	Q 911	2SD1994(R,S)	TRANRISTOR
	Q 912	2SA1362GR	TRANSISTOR
	Q 913	UN2211	TRANSISTOR
	Q 914	UN2211	TRANSISTOR
	Q 915	UN2111	TRANSISTOR
	Q 921	2SB766(Q,R)	TRANSISTOR
	Q 922	UN2211	TRANSISTOR
	Q 923	2SD1994(R,S)	TRANRISTOR
	Q 924	2SD1994(R,S)	TRANRISTOR
	Q 925	2SB766(Q,R)	TRANSISTOR
	Q 931	2SD1994(R,S)	TRANRISTOR
	Q 951	UN2111	TRANSISTOR
	Q 952	2SD601A(R)	TRANSISTOR
	Q 953	2SD601A(R)	TRANSISTOR
	Q 954	2SD601A(R)	TRANSISTOR
	Q 955	UN2111	TRANSISTOR
	Q 956	2SD601A(R)	TRANSISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	Q 957	UN2211	TRANSISTOR
	Q 958	UN2111	TRANSISTOR
	Q 959	UN2211	TRANSISTOR
	Q 960	UN2211	TRANSISTOR
	R 11	NRSA02J-102NY	MG RESISTOR
	R 12	NRSA02J-102NY	MG RESISTOR
	R 13	NRSA02J-102NY	MG RESISTOR
	R 14	NRVA62D-333NY	MG RESISTOR
	R 18	NRVA62D-333NY	MG RESISTOR
	R 19	NRSA02J-103NY	MG RESISTOR
	R 20	NRSA02J-103NY	MG RESISTOR
	R 21	NRSA02J-183NY	MG RESISTOR
	R 22	NRSA02J-562NY	MG RESISTOR
	R 23	NRSA02J-153NY	MG RESISTOR
	R 25	NRSA02J-331NY	MG RESISTOR
	R 31	NRSA02J-102NY	MG RESISTOR
	R 32	NRSA02J-473NY	MG REGISTOR
	R 33	NRSA02J-822NY	MG REAIATOR
	R 34	NRSA02J-393NY	MG RESISTOR
	R 35	NRSA02J-223NY	MG RESISTOR
	R 36	NRSA02J-512NY	MG RESISTOR
	R 37	NRSA02J-334NY	MG RESISTOR
	R 38	NRSA02J-393NY	MG RESISTOR
	R 111	NRSA02J-473NY	MG REGISTOR
	R 151	NRSA02J-682NY	MG RESISTOR
	R 152	NRSA02J-472NY	MG RESISTOR
	R 153	NRSA02J-471NY	MG RESISTOR
	R 154	NRSA02J-1RONY	MG RESISTOR
	R 155	NRSA02J-1RONY	MG RESISTOR
	R 211	NRSA02J-473NY	MG REGISTOR
	R 251	NRSA02J-682NY	MG RESISTOR
	R 252	NRSA02J-472NY	MG RESISTOR
	R 253	NRSA02J-471NY	MG RESISTOR
	R 254	NRSA02J-1RONY	MG RESISTOR
	R 255	NRSA02J-1RONY	MG RESISTOR
	R 301	NRSA02J-102NY	MG RESISTOR
	R 302	NRSA02J-181NY	MG REGISTOR
	R 303	NRSA02J-181NY	MG REGISTOR
	R 304	NRSA02J-181NY	MG REGISTOR
	R 306	NRSA02J-181NY	MG REGISTOR
	R 307	NRSA02J-181NY	MG REGISTOR
	R 311	NRSA02J-222NY	MG RESISTOR
	R 312	NRSA02J-101NY	MG RESISTOR
	R 321	NRSA02J-203NY	MG REGISTOR
	R 322	NRSA02J-223NY	MG RESISTOR
	R 323	NRSA02J-473NY	MG REGISTOR
	R 324	NRSA02J-473NY	MG REGISTOR
	R 325	NRSA02J-104NY	MG RESISTOR
	R 326	NRSA02J-331NY	MG RESISTOR
	R 327	NRSA02J-221NY	MG RESISTOR
	R 328	NRSA02J-221NY	MG RESISTOR
	R 329	NRSA02J-105NY	MG RESISTOR
	R 330	NRSA02J-103NY	MG RESISTOR
	R 331	NRSA02J-562NY	MG RESISTOR
	R 332	NRSA02J-682NY	MG RESISTOR
	R 333	NRSA02J-272NY	MG RESISTOR
	R 334	NRSA02J-104NY	MG RESISTOR
	R 335	NRSA02J-103NY	MG RESISTOR
	R 336	NRSA02J-223NY	MG RESISTOR
	R 337	NRSA02J-103NY	MG RESISTOR
	R 341	NRSA02J-512NY	MG RESISTOR
	R 342	NRSA02J-561NY	MG RESISTOR
	R 343	NRSA02J-471NY	MG RESISTOR
	R 351	NRSA02J-203NY	MG REGISTOR
	R 352	NRSA02J-223NY	MG RESISTOR
	R 353	NRSA02J-104NY	MG RESISTOR
	R 354	NRSA02J-332NY	MG RESISTOR
	R 355	NRSA02J-331NY	MG RESISTOR
	R 361	NRSA02J-102NY	MG RESISTOR
	R 362	NRSA02J-102NY	MG RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R 363	NRSA02J-332NY	MG RESISTOR
	R 364	NRSA02J-332NY	MG RESISTOR
	R 371	NRSA02J-101NY	MG RESISTOR
	R 411	NRSA02J-222NY	MG RESISTOR
	R 421	NRSA02J-203NY	MG REGISTOR
	R 422	NRSA02J-223NY	MG RESISTOR
	R 423	NRSA02J-473NY	MG REGISTOR
	R 424	NRSA02J-473NY	MG REGISTOR
	R 425	NRSA02J-104NY	MG RESISTOR
	R 426	NRSA02J-331NY	MG RESISTOR
	R 427	NRSA02J-221NY	MG RESISTOR
	R 428	NRSA02J-221NY	MG RESISTOR
	R 429	NRSA02J-105NY	MG RESISTOR
	R 430	NRSA02J-103NY	MG RESISTOR
	R 431	NRSA02J-562NY	MG RESISTOR
	R 432	NRSA02J-682NY	MG RESISTOR
	R 433	NRSA02J-272NY	MG RESISTOR
	R 434	NRSA02J-104NY	MG RESISTOR
	R 435	NRSA02J-103NY	MG RESISTOR
	R 436	NRSA02J-223NY	MG RESISTOR
	R 437	NRSA02J-103NY	MG RESISTOR
	R 441	NRSA02J-512NY	MG RESISTOR
	R 442	NRSA02J-561NY	MG RESISTOR
	R 443	NRSA02J-471NY	MG RESISTOR
	R 451	NRSA02J-203NY	MG REGISTOR
	R 452	NRSA02J-223NY	MG RESISTOR
	R 453	NRSA02J-104NY	MG RESISTOR
	R 454	NRSA02J-332NY	MG RESISTOR
	R 455	NRSA02J-331NY	MG RESISTOR
	R 461	NRSA02J-102NY	MG RESISTOR
	R 462	NRSA02J-102NY	MG RESISTOR
	R 463	NRSA02J-332NY	MG RESISTOR
	R 464	NRSA02J-332NY	MG RESISTOR
	R 471	NRSA02J-101NY	MG RESISTOR
	R 501	NRSA02J-183NY	MG RESISTOR
	R 502	NRSA02J-183NY	MG RESISTOR
	R 503	NRSA02J-104NY	MG RESISTOR
	R 504	NRVA62D-823NY	MG RESISTOR
	R 505	NRSA02J-104NY	MG RESISTOR
	R 506	NRSA02J-273NY	MG RESISTOR
	R 507	NRSA02J-472NY	MG RESISTOR
	R 508	NRSA02J-682NY	MG RESISTOR
	R 509	NRSA02J-681NY	MG RESISTOR
	R 510	NRSA02J-102NY	MG RESISTOR
	R 512	NRSA02J-103NY	MG RESISTOR
	R 513	NRSA02J-103NY	MG RESISTOR
	R 514	NRSA02J-223NY	MG RESISTOR
	R 515	NRSA02J-123NY	MG RESISTOR
	R 516	NRSA02J-273NY	MG RESISTOR
	R 517	NRSA02J-124NY	MG RESISTOR
	R 518	NRSA02J-124NY	MG RESISTOR
	R 519	NRSA02J-103NY	MG RESISTOR
	R 520	NRSA02J-822NY	MG REAIATOR
	R 521	NRSA02J-335NY	MG RESISTOR
	R 522	NRSA02J-683NY	MG RESISTOR
	R 523	NRSA02J-683NY	MG RESISTOR
	R 524	NRSA02J-822NY	MG REAIATOR
	R 525	NRSA02J-562NY	MG RESISTOR
	R 526	NRSA02J-103NY	MG RESISTOR
	R 531	NRSA02J-181NY	MG REGISTOR
	R 532	NRSA02J-222NY	MG RESISTOR
	R 533	NRSA02J-473NY	MG REGISTOR
	R 534	NRSA02J-223NY	MG RESISTOR
	R 536	NRSA02J-474NY	MG RESISTOR
	R 537	NRSA02J-473NY	MG REGISTOR
	R 538	NRSA02J-104NY	MG RESISTOR
	R 539	NRSA02J-103NY	MG RESISTOR
	R 540	NRSA02J-683NY	MG RESISTOR
	R 541	NRSA02J-102NY	MG RESISTOR
	R 542	NRSA02J-153NY	MG RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R 543	NRSA02J-682NY	MG RESISTOR
	R 544	NRSA02J-273NY	MG RESISTOR
	R 545	NRSA02J-682NY	MG RESISTOR
	R 546	NRSA02J-822NY	MG REAIATOR
	R 547	NRSA02J-153NY	MG RESISTOR
	R 548	NRSA02J-123NY	MG RESISTOR
	R 549	NRSA02J-102NY	MG RESISTOR
	R 550	NRSA02J-153NY	MG RESISTOR
	R 551	NRSA02J-153NY	MG RESISTOR
	R 552	NRSA02J-122NY	MG RESISTOR
	R 553	NRSA02J-104NY	MG RESISTOR
	R 554	NRSA02J-273NY	MG RESISTOR
	R 555	NRSA02J-333NY	MG RESISTOR
	R 556	NRSA02J-272NY	MG RESISTOR
	R 557	NRSA02J-102NY	MG RESISTOR
	R 558	NRSA02J-224NY	MG RESISTOR
	R 559	NRSA02J-102NY	MG RESISTOR
	R 560	NRSA02J-102NY	MG RESISTOR
	R 561	NRVA62D-333NY	MG RESISTOR
	R 562	NRSA02J-392NY	MG RESISTOR
	R 563	NRSA02J-153NY	MG RESISTOR
	R 564	NRSA02J-104NY	MG RESISTOR
	R 565	NRSA02J-180NY	MG RESISTOR
	R 566	NRSA02J-180NY	MG RESISTOR
	R 567	NRVA62D-823NY	MG RESISTOR
	R 568	NRVA62D-823NY	MG RESISTOR
	R 569	NRVA62D-823NY	MG RESISTOR
	R 570	NRVA62D-333NY	MG RESISTOR
	R 571	NRSA02J-563NY	MG RESISTOR
	R 572	NRSA02J-100NY	MG RESISTOR
	R 573	NRSA02J-100NY	MG RESISTOR
	R 574	NRVA62D-333NY	MG RESISTOR
	R 575	NRSA02J-100NY	MG RESISTOR
	R 576	NRSA02J-100NY	MG RESISTOR
	R 577	NRVA62D-333NY	MG RESISTOR
	R 578	NRVA62D-333NY	MG RESISTOR
	R 579	NRVA62D-823NY	MG RESISTOR
	R 580	NRVA62D-823NY	MG RESISTOR
	R 581	NRSA02J-563NY	MG RESISTOR
	R 582	NRVA62D-333NY	MG RESISTOR
	R 583	NRSA02J-100NY	MG RESISTOR
	R 584	NRSA02J-100NY	MG RESISTOR
	R 601	NRSA02J-103NY	MG RESISTOR
	R 602	NRSA02J-103NY	MG RESISTOR
	R 603	NRSA02J-473NY	MG REGISTOR
	R 604	NRSA02J-472NY	MG RESISTOR
	R 605	NRSA02J-472NY	MG RESISTOR
	R 606	NRSA02J-472NY	MG RESISTOR
	R 607	NRSA02J-472NY	MG RESISTOR
	R 608	NRSA02J-472NY	MG RESISTOR
	R 609	NRSA02J-472NY	MG RESISTOR
	R 610	NRSA02J-103NY	MG RESISTOR
	R 611	NRSA02J-103NY	MG RESISTOR
	R 612	NRSA02J-103NY	MG RESISTOR
	R 613	NRSA02J-103NY	MG RESISTOR
	R 614	NRSA02J-103NY	MG RESISTOR
	R 615	NRSA02J-472NY	MG RESISTOR
	R 616	NRSA02J-103NY	MG RESISTOR
	R 617	NRSA02J-473NY	MG REGISTOR
	R 618	NRSA02J-103NY	MG RESISTOR
	R 619	NRSA02J-473NY	MG REGISTOR
	R 623	NRSA02J-472NY	MG RESISTOR
	R 624	NRSA02J-472NY	MG RESISTOR
	R 625	NRSA02J-103NY	MG RESISTOR
	R 626	NRSA02J-103NY	MG RESISTOR
	R 627	NRSA02J-103NY	MG RESISTOR
	R 628	NRSA02J-103NY	MG RESISTOR
	R 629	NRSA02J-331NY	MG RESISTOR
	R 630	NRSA02J-331NY	MG RESISTOR
	R 631	NRSA02J-103NY	MG RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R 632	NRSA02J-103NY	MG RESISTOR
	R 633	NRSA02J-331NY	MG RESISTOR
	R 634	NRSA02J-331NY	MG RESISTOR
	R 635	NRSA02J-103NY	MG RESISTOR
	R 636	NRSA02J-103NY	MG RESISTOR
	R 661	NRSA02J-102NY	MG RESISTOR
	R 691	NRSA02J-101NY	MG RESISTOR
	R 701	NRSA02J-332NY	MG RESISTOR
	R 702	NRSA02J-332NY	MG RESISTOR
	R 703	NRSA02J-332NY	MG RESISTOR
	R 706	NRSA02J-474NY	MG RESISTOR
	R 707	NRSA02J-103NY	MG RESISTOR
	R 708	NRSA02J-103NY	MG RESISTOR
	R 710	NRSA02J-103NY	MG RESISTOR
	R 712	NRSA02J-103NY	MG RESISTOR
	R 713	NRSA02J-103NY	MG RESISTOR
	R 721	NRSA02J-102NY	MG RESISTOR
	R 722	NRSA02J-102NY	MG RESISTOR
	R 723	NRSA02J-222NY	MG RESISTOR
	R 725	NRSA02J-332NY	MG RESISTOR
	R 731	NRSA02J-471NY	MG RESISTOR
	R 791	NRSA02J-103NY	MG RESISTOR
	R 792	NRSA02J-102NY	MG RESISTOR
	R 793	NRSA02J-103NY	MG RESISTOR
	R 794	NRSA02J-222NY	MG RESISTOR
	R 901	QRG016J-R47A	OMF RESISTOR
	R 902	NRSA02J-100NY	MG RESISTOR
	R 903	NRSA02J-471NY	MG RESISTOR
	R 911	NRSA02J-472NY	MG RESISTOR
	R 912	NRSA02J-103NY	MG RESISTOR
	R 913	NRSA02J-102NY	MG RESISTOR
	R 914	NRSA02J-683NY	MG RESISTOR
	R 915	NRSA02J-102NY	MG RESISTOR
	R 916	NRSA02J-472NY	MG RESISTOR
	R 917	NRSA02J-102NY	MG RESISTOR
	R 921	NRSA02J-472NY	MG RESISTOR
	R 922	NRSA02J-471NY	MG RESISTOR
	R 923	NRSA02J-471NY	MG RESISTOR
	R 924	NRSA02J-471NY	MG RESISTOR
	R 925	NRSA02J-472NY	MG RESISTOR
	R 926	NRSA02J-471NY	MG RESISTOR
	R 927	QRG016J-2R2A	OMF RESISTOR
	R 931	NRSA02J-471NY	MG RESISTOR
	R 951	NRSA02J-473NY	MG REGISTOR
	R 952	NRSA02J-103NY	MG RESISTOR
	R 953	NRSA02J-103NY	MG RESISTOR
	R 954	NRVA62D-333NY	MG RESISTOR
	R 955	NRSA02J-683NY	MG RESISTOR
	R 956	NRSA02J-100NY	MG RESISTOR
	R 957	NRSA02J-103NY	MG RESISTOR
	R 958	NRSA02J-471NY	MG RESISTOR
	R 959	NRSA02J-103NY	MG RESISTOR
	R 960	NRSA02J-471NY	MG RESISTOR
	R 961	NRSA02J-102NY	MG RESISTOR
	R 962	NRSA02J-103NY	MG RESISTOR
	R 963	NRSA02J-103NY	MG RESISTOR
	R 964	NRSA02J-103NY	MG RESISTOR
	R 965	NRSA02J-103NY	MG RESISTOR
	R 966	NRSA02J-103NY	MG RESISTOR
	VR 11	QVZ3523-203AZ	V RESISTOR
	VR 31	QVZ3523-103AZ	V RESISTOR
	VR341	VCV1001-106	BASS TREBLE
	VR342	VCV1001-098	VOL BAL FADE SW
	VR501	QVZ3523-503AZ	V RESISTOR
	VR521	QVZ3523-103AZ	V RESISTOR
	X 551	VCX5016-934	CRYSTAL
	X 601	CSA8.00MT	CERA LOCK
	X 701	VCX5002-001	CRYSTAL

B Version only

⚠	REF. NO.	PARTS NO.	PARTS NAME
	R321,R421	NRSA02J-104NY	MG RESISTOR
	R322,R422	NRSA02J-104NY	MG RESISTOR
	R335,R435	NRSA02J-113NY	MG RESISTOR
	R336,R436	NRSA02J-393NY	MG RESISTOR
	C329,C429	NCS21HJ-151AY	C CAPACITOR
	R351,R451	NRSA02J-472NYM	MG RESISTOR
	R352,R452	NRSA02J-512NY	MG RESISTOR
		VMP0029-018	ANT. CORD ASS'Y
	IC701	UPD1723GF-550	IC
	C721	NCB21HK-102AY	C CAPACITOR
		VAF6S03-001	FM/AM FRONTEND
	Q13	UN2211	TRANSISTOR
	C13	NCB21EX-223AY	C CAPACITOR
	C25	NEF11CM-105RY	TS E CAPACITOR
	IC31	NMX4S933	H. IC
	D31	HSM2836C	DIODE
	D32	HSM2836C	DIODE
	R34	NRSA02J-123NY	MG RESISTOR
	C35	NCT21CH-331AY	C CAPACITOR

E Version only

⚠	REF. NO.	PARTS NO.	PARTS NAME
	R335,R345	NRSA02J-113NY	MG RESISTOR
	R336,R436	NRSA02J-393NY	MG RESISTOR
	C329,C429	NCS21HJ-151AY	C CAPACITOR
	IC701	UPD1723GF-550	IC
	C721	NCB21HK-102AY	C CAPACITOR
		VAF6S03-001	FM/AM FRONTEND
	Q12	UN2211	TRANSISTOR
	C25	NEF11CM-105RY	TS E CAPACITOR
	IC31	NMX4S933	H. IC

G/GE Version only

⚠	REF. NO.	PARTS NO.	PARTS NAME
	Q481	2SD1328(S,T)	TRANSISTOR
	Q482	UX2111	TRANSISTOR
	Q483	UX2211	TRANSISTOR
	VR481	QVZ3523-202AZ	V RESISTOR
	R481	NRSA02J-472NY	MG RESISTOR
	R482	NRSA02J-222NY	MG RESISTOR
	C481	QEKF1CM-226ZN	E CAPACITOR
	L533	VQP1003-R22Y	INDUCTOR
	C558	NCS21HJ-101AY	C CAPACITOR
	C571	NCS21HJ-101AY	C CAPACITOR
	C572	NCS21HJ-101AY	C CAPACITOR
	R335,R435	NRSA02J-113NY	MG RESISTOR
	R336,R436	NRSA02J-563NY	MG RESISTOR
	C329,C429	NCS21HJ-101AY	C CAPACITOR
	VR342	VCV1001-099	VOL BAL FADE SW
	IC701	UPD1723GF-550	IC
	C721	NCB21HK-102AY	C CAPACITOR
	Q751	2SD601A(R)	TRANSISTOR
	D751	HSM2838C	DIODE
	D752	HSM2836C	DIODE
	R751	NRSA02J-104NY	MG RESISTOR
	R752	NRSA02J-103NY	MG REGISTOR
	R753	NRSA02J-103NY	MG RESISTOR
	R754	NRSA02J-223NY	MG RESISTOR
	R755	NRSA02J-224NY	MG RESISTOR
	R756	NRSA02J-334NY	MG RESISTOR
	C751	QERF1CM-106ZM	E CAPACITOR
	C752	QERF1CM-106ZM	E CAPACITOR
	C753	NCB21HK-103AY	C CAPACITOR
	C754	NCB21HK-103AY	C CAPACITOR
		VAF6S03-001	FM/AM FRONTENT
	Q13	UN2211	TRANSISTOR
	C25	NEF11CM-105RY	TS E CAPACITOR
	IC31	NMX4S933	H. IC
	IC51	AN6556S	IC
	R51	NRSA02J-103NY	MG RESISTOR
	R52	NRSA02J-103NY	MG RESISTOR
	R53	NRSA02J-104NY	MG RESISTOR
	R54	NRSA02J-562NY	MG RESISTOR
	R55	NRSA02J-161NY	MG RESISTOR
	R57	NRSA02J-473NY	MG RESISTOR
	C51	QERF1EM-475ZN	E CAPACITOR
	C52	QERF0JM-476Z	E CAPACITOR
	C53	NCT21CH-102AY	C CAPACITOR
	C54	NCT21CH-102AY	C CAPACITOR
	IC71	LA2231M	IC
	D71	MA3051(M)	Z DIODE
	CF71	CSB456F15	CELA. LOCK
	R71	NRSA02J-101NY	MG RESISTOR
	R72	NRSA02J-102NY	MG RESISTOR
	R73	NRSA02J-103NY	MG RESISTOR
	R74	NRSA02J-103NY	MG RESISTOR
	R75	NRSA02J-223NY	MG RESISTOR
	R76	NRSA02J-824NY	MG RESISTOR
	R77	NRSA02J-564NY	MG RESISTOR
	C71	QERF0JM-476ZN	E CAPACITOR
	C72	QERF1CM-226ZN	E CAPACITOR
	C73	NCB21HK-332AY	C CAPACITOR
	C74	NCB21HK-102AY	C CAPACITOR
	C75	NCB21HK-332AY	C CAPACITOR

⚠	REF. NO.	PARTS NO.	PARTS NAME
	C76	NCB21HK-102AY	C CAPACITOR
	C77	NCB21HK-103AY	C CAPACITOR
	C78	QERF1CM-106ZM	E CAPACITOR
	C79	QERF1EM-475ZN	E CAPACITOR
	C80	QERF1CM-226ZN	E CAPACITOR
	C81	NCB21HK-223AY	C CAPACITOR
	C82	NCB21HK-333AY	C CAPACITOR
	C83	NCB21HK-682AY	C CAPACITOR
	C84	NCB21HK-333AY	C CAPACITOR

■ LCD/Switch Board

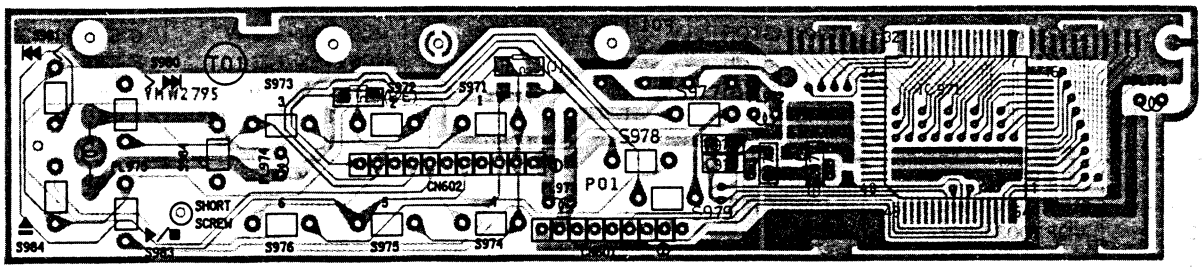

Fig. 7-5

#1001~

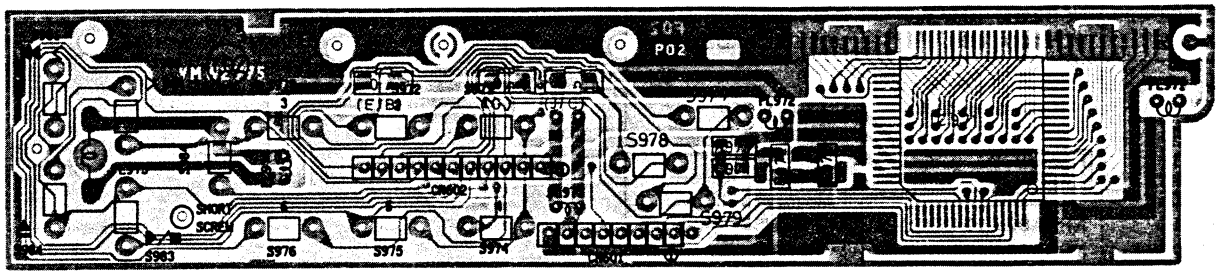

Fig. 7-6

• LCD/Switch Board Parts List

⚠	REF.	PARTS NO.	PARTS NAME
	C 971	NCS21HJ-681AY	C CAPACITOR
	C 972	NEF20JM-475RY	TS E CAPACITOR
	IC971	LC7582A	IC
	PL971	VGZ0001-019	LAMP
	PL972	VGZ0001-019	LAMP
	PL973	VGZ0001-019	LAMP
	PL974	VGZ0001-019	LAMP
	PL975	VGZ0001-019	LAMP
	R 971	NRSA02J-513NY	MG RESISTOR
	R 972	NRSA02J-221NY	MG RESISTOR
	S 971	QSP1A11-V06A	TACT SWITCH
	S 972	QSP1A11-V06A	TACT SWITCH
	S 973	QSP1A11-V06A	TACT SWITCH
	S 974	QSP1A11-V06A	TACT SWITCH
	S 975	QSP1A11-V06A	TACT SWITCH
	S 976	QSP1A11-V06A	TACT SWITCH
	S 977	QSP1A11-V06A	TACT SWITCH
	S 978	QSP1A11-V06A	TACT SWITCH
	S 979	QSP1A11-V06A	TACT SWITCH
	S 980	QSP1A11-V06A	TACT SWITCH
	S 981	QSP1A11-V06A	TACT SWITCH
	S 982	QSP1A11-V06A	TACT SWITCH
	S 983	QSP1A11-V06A	TACT SWITCH
	S 984	QSP1A11-V06A	TACT SWITCH

■ Sensor Board

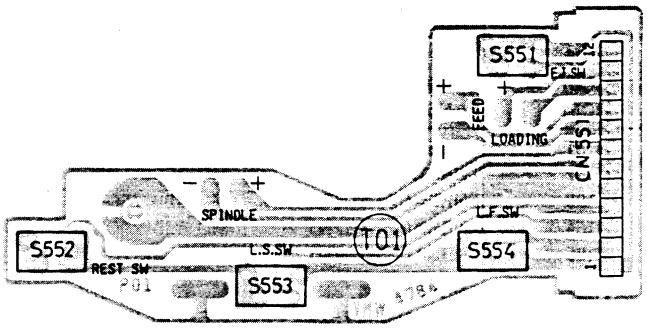

Fig. 7-7

• Sensor Board Parts List

REF. NO.	PARTS NO.	PARTS NAME
S551~S554	VSH1153-001	SWITCH
CN551	VMC0063-012	CONNECTOR

8 Exploded View of Mechanism Assembly

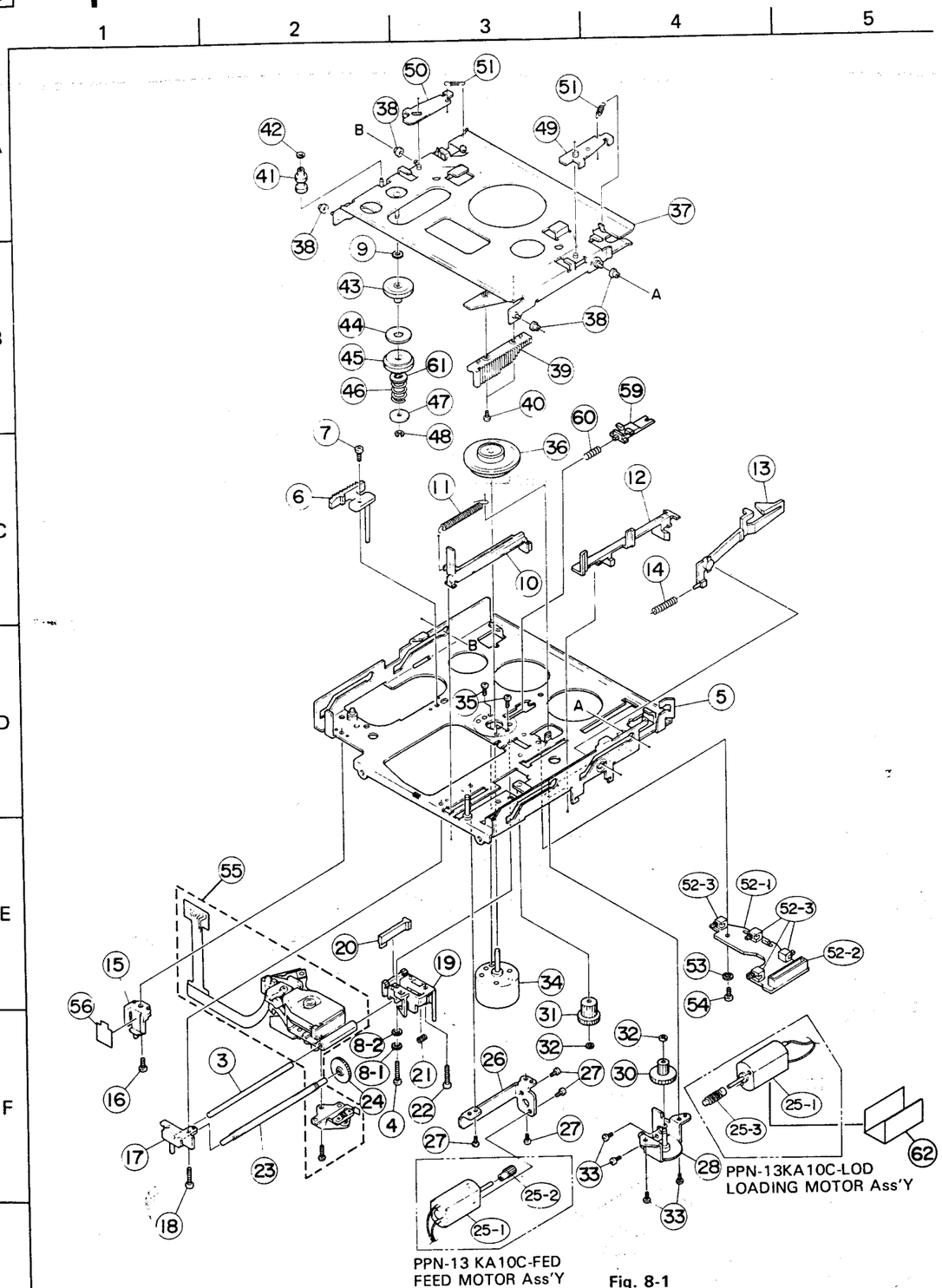

Fig. 8-1

⚠ Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

• Mechanism Component Parts List

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	3	VKH3012-066	SHAFT(E)		1
	4	SDSR2011Z	SCREW		1
	5	VKL1307-00E	CHASSIS ASS'Y		1
	6	VKS5228-001	CARTRIDGE RACK		1
	7	SDST2005Z	SCREW		1
	8-1	WNS2000N	WASHER		1
	8-2	WFL215025-6	WASHER		1
	9	WFM214013	WASHER		1
	10	VKS3426-001	START ACT.		1
	11	VKW4010-001	TENSION SRPING		1
	12	VKS3427-001	OUTRIN ACT		1
	13	VKS3428-001	SHUTTER ARM		1
	14	VKW4020-001	COMP.SPRING		1
	15	VKS5229-001	PCB.HOLDER		1
	16	SDST2005Z	SCREW		1
	17	VKS3429-001	SHAFT STOPPER		1
	18	SDSR2011Z	SCREW		1
	19	VKS3431-001	SHAFT HOLDER		1
	20	VKS5232-001	REST ACT.		1
	21	VKW4020-003	COMP.SPRING		1
	22	SDSR2011Z	SCREW		1
	23	VKZ4560-001	SCREW SHAFT		1
	24	VKR4558-001	S.SHAFT GEAR		1
	25-1,25-2	PPN-13KA10C-FED	FEED MOTOR ASS'Y		1
	25-1,25-3	PPN-13KA10C-LOD	LOADING MOTOR ASS'Y		1
	25-1	PPN-13KA10C	MOTOR	FEED MOTOR	1
		PPN-13KA10C	MOTOR	LOADING MOTOR	1
	25-2	VKS5233-001	F.M.GEAR		1
	25-3	VKS5234-001	WORM GEAR		1
	26	VKM3262-001	F.M.BRACKET		1
	27	SPSK2025M	MINI SCREW		4
	28	VKM3263-00A	L.M.BRACKET ASY		1
	30	VKS5235-001	L.GEAR-1		1
	31	VKS5236-002	L.GEAR-2		1
	32	WDL163525-4	SLIT WASHER		2
	33	SPSK2025M	MINI SCREW		4
	34	MDN-3RB03CS	MOTOR (SPINDLE)		1
	35	SPSK1722M	SCREW		2
	36	VKS3474-00A	T.T.UNIT		1
	37	VKL1309-00A	HOLDER ASS'Y		1
	38	VKS5238-001	GUIDE ROLLER		4
	39	VKS3432-001	LOADING RACK		1
	40	SPSK2020Z	MINI SCREW		2
	41	VKS5239-001	CARTRIDGE GEAR		1
	42	WDL123025-0	SLIT WASHER		1
	43	VKS5240-001	CLUTCH GEAR-1		1
	44	VKZ4561-002	FELT		1
	45	VKS5242-001	CLUTCH GEAR-2		1
	46	VKW4020-002	COMP.SPRING		1
	47	VKL6675-001	SP.STOPPER		1
	48	REE1500	E.RING		1
	49	VKL6676-001	C.STOPPER-L		1
	50	VKL6677-001	C.STOPPER-R		1
	51	VKW4010-002	TENSION SPRING		2
	52-1	VMW4784-001	PW BOARD (S)		1
	52-2	VMC0063-012	CONNECTOR		1
	52-3	VSH1153-001	SWITCH		4
	53	WBS2600N	WASHER		1
	54	SDST2005Z	SCREW		1
	55	VDL3171-00MP	P.U.UNIT	OPTIMA-40A2	1
	58	VYSB1R3-003	SPACER		2
	59	VKS3481-001	PUSH BAR		1
	60	VKW4020-011	COM.SPRING		1
	61	WFL901250	WASHER		1
	62	VMA4473-001	SHIELD CASE		1

9 Exploded View of Enclosure Assembly

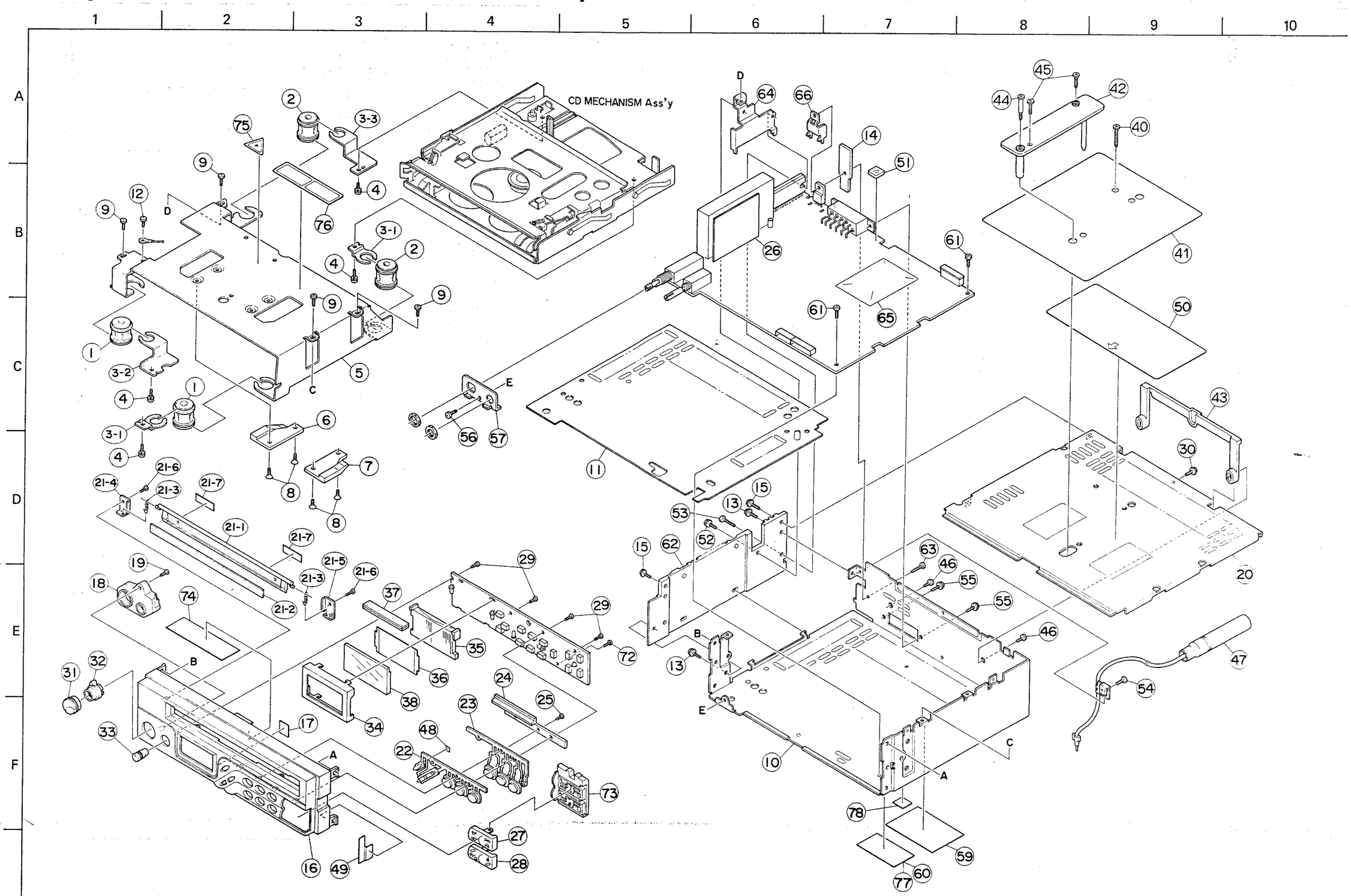

Fig. 9-1

• **Enclosure Component Parts List**

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	16~17, 21,49, 74	ZCXLG2000J-NPA	NOSE PIECE ASS'Y	J VERSION	1
		ZCXLG2000E-NPA	NOSE PIECE ASS'Y	E VERSION	1
		ZCXLG2000G-NPA	NOSE PIECE ASS'Y	G VERSION	1
		ZCXLG2000C-NPA	NOSE PIECE ASS'Y	C VERSION	
		ZCXLG2000B-NPA	NOSE PIECE ASS'Y	B VERSION	
		ZCXLG2000GE-NPA	NOSE PIECE ASS'Y	GE VERSION	
	1	VYH7028-00A	SUSP. ASS'Y	WHITE MARK	2
	2	VYH7028-00B	SUSP. ASS'Y	BLUE MARK	2
	3-1	VKL6754-001	MS BRACKET		1
		VKL6754-001	MS BRACKET		1
	3-2	VKL6917-001	MS BRACKET	FRONT LEFT	1
	3-3	VKL6918-001	MS BRACKET	REAR LEFT	1
	4	LPSP3004Z	SCREW		4
	5	VKL2597-001	MECHA BRACKET		1
	6	VKS3417-001	MECHA LOCK(L)		1
	7	VKS3418-001	MECHA LOCK(R)		1
	8	SSSP2604Z	SCREW	MECHA LOCK	4
	9	SPST2605Z	SCREW	MECHA BRACKET	4
	10	VKL1339-002	CHASSIS		1
	11	VMA3178-001	INSULATOR	CHASSIS+M.PWB	1
	12	SDST2605Z	SCREW		1
	13	VKZ4131-007	SPECIAL SCREW	CHASSIS+SIDE.P	2
	14	VMH4037-001	HEAT SINK	CONNECTOR+CHAS.	1
	15	VKZ4131-007	SPECIAL SCREW	TOP+CHASSIS	2
	16	VJC1926-009	NOSE PIECE	C/J VERSION	1
	16	VJC1926-010	NOSE PIECE ASS'Y	B/E VERSION	1
	16	VJC1926-011	NOSE PIECE ASS'Y	G/GE VERSION	1
	17	VYTT451-032	SHEET	+5	1
	18	VJK3517-001	KNOB LENS		1
	19	SPSN1755N	MINI SCREW	KNOB LENS	1
	20	VKL2598-002	TOP COVER		1
	21-1	VJT3202-001	CD LID		1
	21-2	VJT4135-015	LID PLATE		1
	21-3	VKW3002-207	TENSION SPRING		2
	21-4	VKL6454-001	LID BRACKET	LEFT	1
	21-5	VKL6454-002	LID BRACKET	RIGHT	1
	21-6	SPSN1755N	MINI SCREW	LID BKT+NOSE	2
	21-7	VYSB1R3-010	SPACER		2
	22	VXP3388-001	PRESET BUTTON	1-3&PUSH BUTTON	1
	23	VXP3389-001	PRESET BUTTON	4-6&&RESET BUT.	1
	24	VJK3518-001	LIGHT LENS		1
	25	SPSN1755N	MINI SCREW	LIGHT LENS+NOSE	1
	26	VYSS1R4-032	SPACER	TUNER PACK	1
	27	VXP4987-00B	PUSH BUTTON	UP&DOWN	1
	28	VXP4988-00C	PUSH BUTTON	PLAY/STOP&EJECT	1
	29	SPSN1755N	MINI SCREW	SW PWB	4
	30	VKZ4131-007	SPECIAL SCREW	TOP+CHASSIS	1
	31	VXL4356-00D	VOL.KNOB ASS'Y		1
	32	VXL4358-001	FADER KNOB		1
	33	VXL4333-003	KNOB	BASS/TREBLE	1
	34	VKM3243-002	LCD CASE		1

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	35	VJK3465-001	LCD LENS		1
	36	VYTT541-002	SCREEN		1
	37	VMZ0053-006	INTER CONNECTOR		1
	38	VGL1058-002	LCD		1
	40	SDSP3014A	SCREW	MECHA+TOP	1
	41	VND4372-001	CAUTION CARD	TRANS.CAUTION	1
	42	VKS3409-002	MECHA HOLDER		1
	43	VKS5257-003	MECHA HOLDER(R)		1
	44	VKZ4567-001	SPECIAL SCREW		1
	45	SDSP3010A	SCREW		2
	46	SDSP3010A	SCREW	M.HOLDER+MECHA	2
	47	VMP0029-018	ANT. CORD ASS'Y		1
	48	VYSA1R4-088	SPACER	+5/BAND BUTTTON	1
	49	VYTT573-001	SHEET	PUSH BUTTON	1
	50	VND4355-001	CAUTION LABEL		1
	51	VYSS103-003	SPACER	MAIN PWB 3X10X10	1
	52	VKZ4131-007	SPECIAL SCREW	IC BKT+SIDE.P	1
	53	VKZ4345-003	SPECIAL SCREW	IC BKT+SIDE.P	1
	54	SDST2605Z	SCREW	ANT+CHASSIS	1
	55	VKZ4131-006	SPECIAL SCREW	11P+CHASSIS	2
	56	SDST2605Z	SCREW	VOL.BKT+CHASSIS	1
	57	VKL6919-001	VOLUME BRACKET		1
	59	VYN3338-001SA	NAME PLATE	EXCEPT G/GE VERSION	1
	59	VYN3338-002SA	NAME PLATE	G/GE VERSION	1
	60	VND4922-001	CAUTION LABEL	J VERSION	1
	61	SDSP2604Z	SCREW	M.PWB+CHASSIS	2
	62	VJC3214-001	SIDE PANEL	CONNECTOR+CHAS.	1
	63	VKZ4345-003	SPECIAL SCREW	TR BKT+CHASSIS	1
	64	VKM3513-001	IC BRACKET		1
	65	VMA4505-001	SHIELD PLATE		1
	66	VKL7059-001	TR BRACKET		1
	72	SPSN1740M	SCREW	SW PWB+BUT.BASE	1
	73	VXP3378-001	BUTTON BASE	PLAY/EJ&UPDOWN	1
	74	VYTT451-033	SHEET	LID	1
	75	E71541-001	E.I. LASER MARK	B/E/G/GE VERSION	1
	76	VND4220-001	LASER CAUTION	B/E/G/GE VERSION	1
	77	VND4221-001	CLASS 1 LABEL	B/E/G/GE VERSION	1
	78	E70030-001	APROVAL LABEL	E VERSION	1

10 Packing Illustration and Parts List

• Please install before Packing

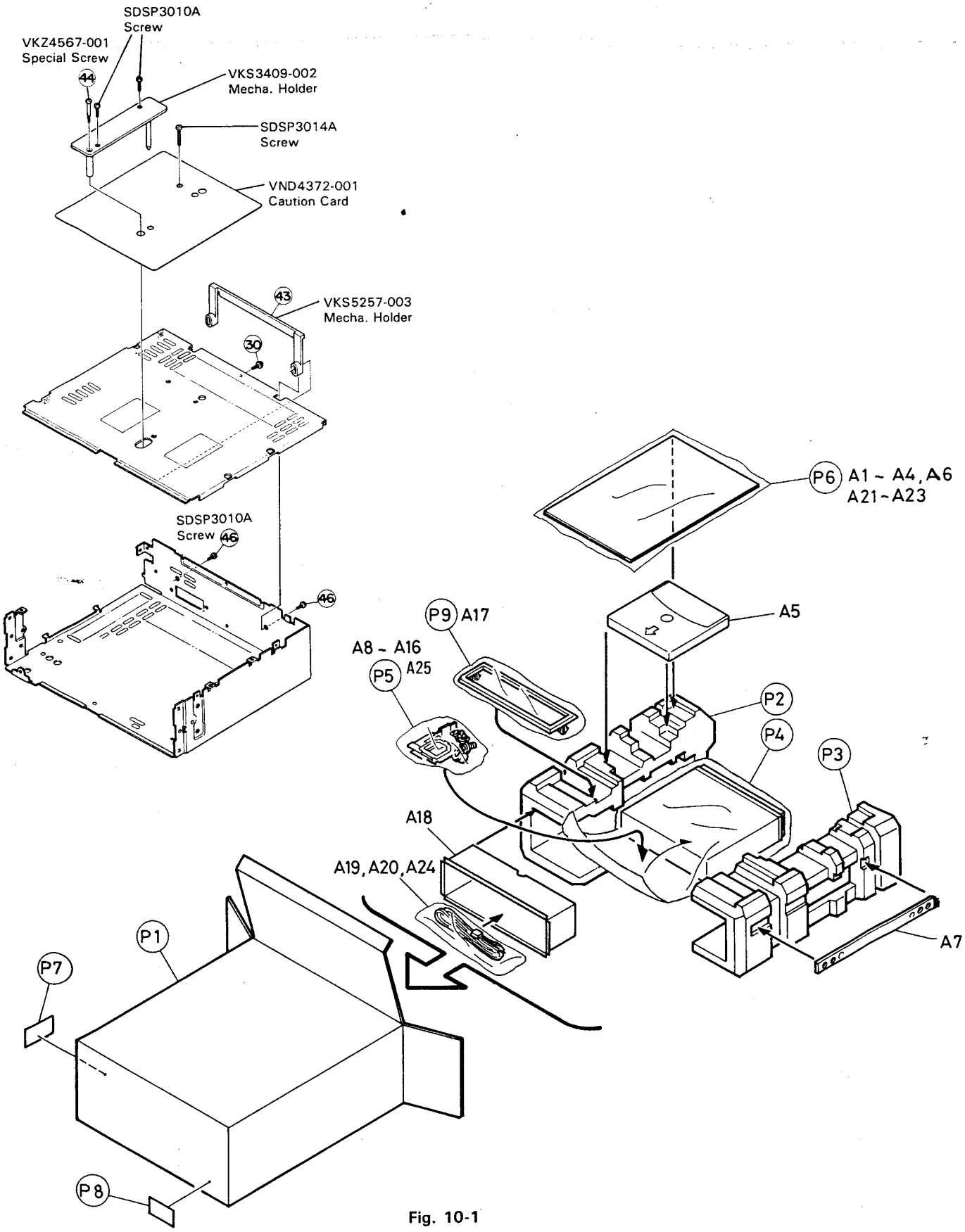

Fig. 10-1

• Packing Parts List

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	A 1	VNN3338-631	INSTRUCT.BOOK	C/J VERSION	1
		VNN3338-211	INSTRUCT. BOOK	B/E/G/GE VERSION	1
		VNN3338-451	INSTRUCT. BOOK	HOLLAND/SPAIN/SWEDEN	1
	A 2	VNC2400-066	CAUTION SHEET		1
	A 3	BT-20059C	WARRANTY CARD	J VERSION	1
		BT-20114	WARRANTY CARD	G VERSION	1
		BT-20066A	WARRANTY CARD	B VERSION	1
		BT-20060	WARRANTY CARD	B VERSION	1
		BT-20025K	WARRANTY CARD	C VERSION	1
	A 4	VNA1001-026	CUSTOMERS CARD		1
	A 5	VJC3200-00D	CD ADAPTER ASSY	XC-20	1
	A 6	BT-20108A	SERVICE NETWORK	J VERSION	1
		BT-20071A	SERVICE NETWORK	C VERSION	1
	A 7	VKL5460-001	STAY		1
	A 8	VKL6746-001	MOUNT BRACKET		1
	A 9	VKZ4027-002	PLUG NUT		1
	A10	VKH4871-001	MOUNT BOLT		1
	A11	VKZ4328-001	LOCK NUT	XLG2000K-SCREW	1
	A12	SSSP4006Z	SCREW	SCREW KIT	4
	A13	VKY4462-003	SIDE SPRING		2
	A14	VJH4089-001	HANDLE HOLDER		2
	A15	WNS5000Z	WASHER		1
	A16	SSSH2090M	SCREW		2
	A25	SDST2605Z	SCREW		1
	A17	VJD3797-001	TRIM PLATE		1
	A18	VKL3732-014	MOUNTING SLEEVE		1
	A19	VMC0014-086	11P CORD ASS'Y	B/C/G/GE/J VERSIO	1
		VMC0014-094	11P CORD ASS'Y	E VERSION	1
	A20	VYTA500-001	PIN CAP		2
	A21	PU36158	FTZ INFORMATION SHEET	G VERSION	1
	A22	E43486-340B	SAFETY INST. SHEET	B VERSION	1
	A23	VND3050-001	IDENTITY CARD	B/E/G/GE VERSION	1
	A24	QMF61G3-6R3J1	FUSE	E VERSION	1
		13700600	FUSE	EXCEPT E VERSION	1
	P 1	VPC3338-001	CARTON		1
	P 2	VPH1554-001	CUSHION(L)		1
	P 3	VPH1555-001	CUSHION(R)		1
	P 4	VPE3005-066	POLY BAG		1
	P 5	QPGA008-01205	POLY BAG	FOR SCREW	1
	P 6	QPGA017-02505	POLY BAG	C/J VERSION	1
		QPGA017-02404	POLY BAG	B/E/G/GE VERSION	1
	P 7	VND3046-002	SERIAL TICKET	J VERSION	1
		VND3046-003	SERIAL TICKET	E VERSION	1
		VND3046-004	SERIAL TICKET	B VERSION	1
		VND3046-005	SERIAL TICKET	G VERSION	1
		VND3046-001	SERIAL TICKET	GE VERSION	1
	P 8	VND3072-021	UPC CODE LABEL	C/J VERSION	1
		VND3071-034	EAN CODE LABEL	B/E/G/GE VERSION	1
	P 9	QPGA012-02505	POLY BAG		1

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